

Phase I	Environme	ental	Site
Assessment	Mehlville,	Miss	ouri

		Prepared for
National	Geospatial-Intelligence	Agency



AND

12

 U.S. Army Corps of Engineers



January 2015

CH2MHILL®

6600 Peachtree Dunwoody Road 400 Embassy Row Suite 600 Atlanta, GA 30328

Executive Summary

2 Background

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- 3 The subject Property in Mehlville, Missouri (hereafter "the Property"), consists of a 99.34-acre parcel that
- 4 includes a large eight-modular, two-story building with a basement. CH2M HILL was contracted by the
- 5 National Geospatial-Intelligence Agency (NGA) to prepare a Phase I Environmental Site Assessment (ESA)
- of the Property. **Figure ES-1** is a Project overview map that shows the proposed Property location. The
- 7 Property is one of four proposed sites identified through an initial site location study for a new NGA campus
- 8 in the St. Louis metropolitan area. The current NGA facility on South 2nd Street in St. Louis is functionally
- 9 obsolete and requires modernization to support its mission.

10 Summary of Work Performed

- 11 The ESA consisted of a walking and driving reconnaissance, records review, review of historical maps and
- 12 photographs, and interviews. The ESA was conducted in conformance with Title 40 of the Code of Federal
- 13 Regulations (CFR) Part 312.10 (40 CFR 312.10) and ASTM International (ASTM) Standard
- 14 Practice E1527-13 (ASTM E1527-13 or the Practice).
- 15 Exceptions and limitations to ASTM E1527-13 included the following:
- In accordance with the client's instruction, interviews with the current Property owners were not conducted. Interviews with the previous owners and adjacent property owners were also not performed.
- During the site reconnaissance, none of the structures on the Property was accessible and only the
 exteriors were visually surveyed.
- Aerial photographs at 5-year intervals were reviewed from the following years: 2012, 2010, 2009, 2007,
 1996, 1992, 1988, 1985, 1974, 1971, 1968, 1958, 1953, 1941, and 1937.
- City directory information was reviewed for the following years: 2013, 2008, 2006, 2001, 1999, 1992,
- 23 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936,
- 24 1935, and 1930. Business directories and city directories, including city, cross-reference, and telephone
- directories, were reviewed, if available, for approximately 5-year intervals. Based on the city directory
- abstracts from Environmental Data Resources, Inc. (EDR), there were no previous uses of the Property or
- adjacent properties that would be suspected of degrading the environmental quality.
- Fire insurance maps (Sanborn Maps) were not available for review because a search of The Sanborn
- 29 Library, LLC indicated the Property is unmapped.

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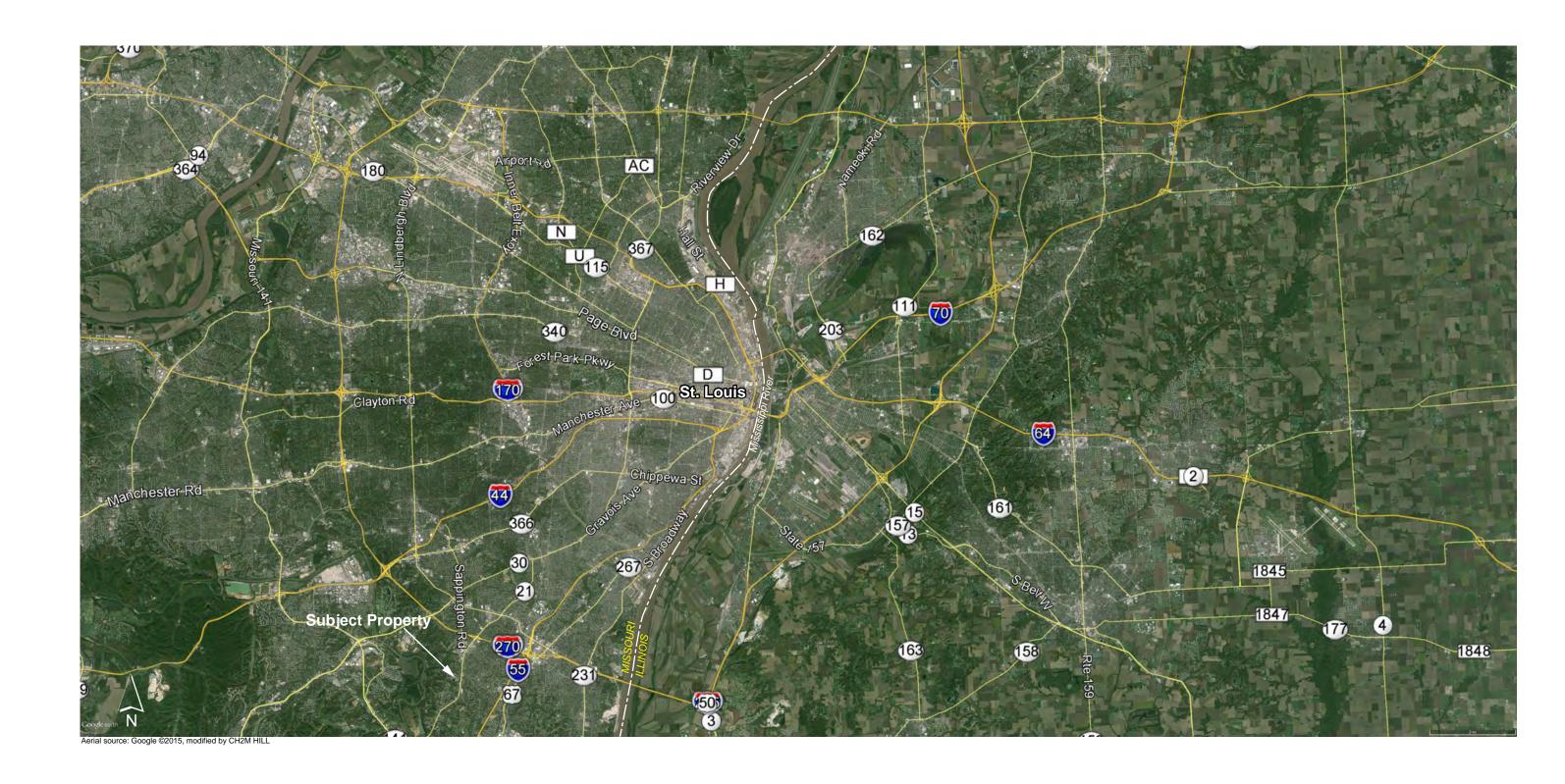


FIGURE ES-1 Project Overview Map NGA Phase I Environmental Site Assessment Mehlville, Missouri

- 1 The purpose of the Phase I ESA was to identify, to the extent feasible, recognized environmental conditions
- 2 (RECs), which are defined as follows:
- 3 The presence or likely presence of any hazardous substances or petroleum products on a property under
- 4 conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous
- 5 substances or petroleum products into structures on the property or into the ground, groundwater, or surface
- 6 water of the property.
- 7 The Property is located at 13045 Tesson Ferry Road in St. Louis, Missouri. The Property can be accessed
- 8 from two entrances off Tesson Ferry Road along the Property's eastern border.

9 Summary of Results

- 10 The ESA results are summarized as follows:
- The ESA did not finding evidence of any RECs, controlled RECs, or historical RECs on the Property.
- 12 The ESA found evidence of the following *de minimis* condition on the Property:
- Several oil-stained parking spaces were observed.
- 14 Findings that did not result in a *de minimis* condition, REC, controlled REC, or, historical REC, but that could
- potentially be an environmental concern include the following:
- An empty 55-gallon drum was found next to other metal debris in the wooded area at the northern
- 17 Property boundary. The drum appeared to be intact and no staining or stressed vegetation was observed.
- An unlabeled, empty, rusted 55-gallon drum was observed at the southern portion of the Property. No
- staining or stressed vegetation was observed.

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• Asphalt pieces were found dumped in a wooded area in the southwestern portion of the Property.

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Acronyms and Abbreviations

2	°F	degrees Fahrenheit
3	AAI	All Appropriate Inquiries
4	ACM	asbestos-containing material
5	AMSD	approximate minimum search distance
6	AMSL	above mean sea level
7	AST	aboveground storage tank
8	ASTM	ASTM International
9	AUL	activity and use limitation
10	CER	computerized environmental report
11	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
12	CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
13	CFR	Code of Federal Regulations
14	CORRACTS	Corrective Action Tracking System
15	CREC	controlled recognized environmental condition
16	DNR	Department of Natural Resources
17	EDR	Environmental Data Resources, Inc.
18	ERNS	Emergency Response Notification System
19	ESA	Environmental Site Assessment
20	KCD	Kansas City District
21	kg	kilograms
22	LBP	lead-based paint
23	LUST	leaking underground storage tank
24	MetLife	Metropolitan Life Insurance Company
25	NESHAP	National Emission Standards for Hazardous Air Pollutants
26	NFRAP	No Further Remedial Action Planned
27	NGA	National Geospatial-Intelligence Agency

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1	NPL	National Priorities List
2	PAH	polycyclic aromatic hydrocarbon
3	PCB	polychlorinated biphenyls
4	pCi/L	picoCuries per liter
5 6	Practice	ASTM E1527-13: Standard Practice for Environmental Site Assessments: Phase l Environmental Site Assessment Process
7	Property	subject Property in Mehlville, Missouri
8	RCRA	Resource Conservation and Recovery Act
9	RCRIS	Resource Conservation and Recovery Act Information System
10	REC	recognized environmental conditions
11	RSF	rentable square feet
12	SPILLS	Spills Information
13	SWF	solid waste facilities
14	TSD	treatment, storage, and disposal
15	USACE	U.S. Army Corps of Engineers
16	USEPA	U.S. Environmental Protection Agency
17	USGS	U.S. Geological Survey
18	UST	underground storage tank

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SECTION 1.0

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2

Introduction

1.1 Purpose

- 3 CH2M HILL conducted an Environmental Site Assessment (ESA) for National Geospatial-Intelligence
- 4 Agency (NGA). The purpose of the ESA was to identify recognized environmental conditions (RECs)
- 5 affecting the Property, using the methodology recommended by ASTM International (ASTM). The ESA is
- 6 intended to satisfy the requirements for the Landowner Liability Protections (innocent landowner defense,
- 7 contiguous property owner liability protection, and bona fide prospective purchaser liability protection)
- 8 provided by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- 9 All Appropriate Inquiries (AAI) Rule (Title 40 of the Code of Federal Regulations [CFR] Part 312
- 10 [40 CFR 312]), and assess potential environmental conditions that could materially impact the purchase price
- and the intended operations on the Property. This ESA conforms with ASTM Standard E1527-13, Standard
- 12 Practice for Environmental Site Assessments: Phase l Environmental Site Assessment Process (ASTM
- 13 E1527-13 or the Practice).
- RECs are defined by ASTM E1527-13 as "...the presence or likely presence of any hazardous substances or
- petroleum products on a property under conditions that indicate an existing release, a past release, or a
- material threat of a release of any hazardous substances or petroleum products into structures on the property
- or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or
- 18 petroleum products even under conditions in compliance with applicable laws. The term is not intended to
- include de minimis conditions that generally do not present a material risk of harm to public health or the
- 20 environment and that generally would not be the subject of an enforcement action if brought to the attention
- 21 of appropriate governmental agencies."

1.2 Detailed Scope of Service

- 23 CH2M HILL's scope of services, performed in accordance with ASTM E1527-13, consisted of the following
- 24 primary components:

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- Walking and Driving Reconnaissance. CH2M HILL performed a Property survey on December 16,
- 26 2014, to check for visible evidence of hazardous materials handling, storage, or disposal, and other
- 27 potential contaminants or practices that might have affected the Property. No samples were collected or
- analyzed as part of the scope of services. Details of the findings are discussed in Section 5.0.
- **Records Review**. Properties within the designated ASTM radii were evaluated for potential
- 30 environmental impacts to the Mehlville Property. This evaluation was limited to the following:

- Evidence readily observable from publicly accessed roadways (CH2M HILL personnel did not
 physically enter neighboring properties.)
- Data that were reasonably ascertainable from federal, state, and local regulatory agency files using
 EDR databases as the source of information (see Section 4.0).
- Review of Historical Maps and Photographs. A list of historical maps, records, reports, and
 photographs is presented in Section 4.0. These items were reviewed to help identify current and
 historically documented environmental conditions that may have impacted the Property.
 - Interviews. The local fire and health departments were contacted for additional information pertaining to the Property and adjacent properties. In accordance with the client's instructions, interviews with the current Property owners were not conducted, nor were interviews performed with the Property's previous owners and adjacent property owners.
- 12 CH2M HILL conducted the Phase I ESA in a manner consistent with accepted ESA practices and believes
- 13 that the information contained in this report is true and correct, within the limitations and exceptions
- described in Section 1.4. All findings, opinions, and conclusions stated in this report are derived from facts
- and circumstances as they existed during the Property reconnaissance on December 16, 2014; however, they
- are not necessarily indicative of future conditions or operating practices at the Property.

1.3 Significant Assumptions

- 18 Significant assumptions made as part of identifying RECs based on the records review, Property
- 19 reconnaissance, and interviews are discussed in this report. In accordance with ASTM E1527-13, information
- 20 collected from these and other sources was assumed to be correct and has not been independently verified by
- 21 CH2M HILL.

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1.4 Limitations and Exceptions

- 23 1.4.1 Limitations
- 24 The ground surfaces of the Property were visually inspected during the site reconnaissance. No test pits were
- 25 installed to inspect subsurface soil conditions, and no sampling or analysis of any media was conducted
- during this survey. None of the structures on the Property was accessible and only the building exteriors were
- visually inspected.
- 28 This report has been prepared in compliance with ASTM E1527-13. In preparing this report, CH2M HILL has
- 29 relied on certain information provided by federal, state, and local officials and other parties referenced herein,
- 30 and on information contained in the files of government agencies that were reasonably ascertainable at the
- 31 time of this assessment. Although there may have been some degree of overlap in the information provided by
- 32 these various sources, no attempt was made independently verify the accuracy or completeness of all

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- 1 information reviewed or received during the course of this site assessment. Observations of the Mehlville
- 2 Property and surrounding properties were made as indicated in this report.

3 1.4.2 Exceptions

4 There are no exceptions.

5 **1.4.3 Data Gaps**

- 6 According to § 3.2.20 of ASTM E1527-05, a data gap is a lack of or inability to obtain information required
- 7 by the ASTM Practice despite good faith efforts to gather the data. Data gaps may result from incompleteness
- 8 in any of the activities required by the ASTM Practice. A data gap is considered significant only if it affects
- 9 the ability to identify RECs. The following data gaps were identified:

Data Gap	Explanation	Significance of Gap
Site History	Site history not available in 5-year intervals.	Low - Standard historical sources of information, such as aerial photographs, historic topographic maps, city directory abstracts, Sanborn Fire Insurance Maps all indicated that site use was consistent (undeveloped, agricultural land) dating back to the 1940s. Review of additional years of historical records sources would not likely provide additional information.
Property Owner and Tenant Interviews	Current and past Property owners and tenants were not interviewed.	Low – Based on aerials, topographic maps, and city directory information, the Property was primarily agricultural use up to the mid-1980s. Since the mid-1980s, the Property has primarily been an administrative complex with no industrial activities.

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1.5 Special Terms and Conditions

12 There are no special terms and conditions for the Property.

1.6 User Reliance

- 14 This report was prepared for the exclusive use of NGA for specific application to the Property. No warranty,
- expressed or implied, is made. There are no beneficiaries of this report other than NGA, and no other person
- or entity is to rely on this report without written consent of CH2M HILL and a written agreement limiting
- 17 CH2M HILL's liability.

SECTION 2.0

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Site Description

2 2.1 Location and Legal Description

- 3 The Property is located at 13045 Tesson Ferry Road, Mehlville, Missouri. The St. Louis County parcel
- 4 identification number is 30M620096. The Property is described as Auguste Chouteau Estate/Lot Plats 6 and 7
- 5 (see **Figure 2-1**).

6 2.2 Property and Vicinity General Characteristics

- 7 The Property comprises 99.34 acres and includes an eight-module (A through H), two-story building with
- 8 connecting hallways. Paved parking lots surround the building on the north, east, and west sides. A 4-acre
- 9 lake is located directly south of the building and between two of the modules. The southern portion of the
- 10 Property is wooded with several small streams. The surrounding properties are mainly residential.

2.3 Current Use of the Property

- 12 Currently, Modules A, B, E, and G are used by Metropolitan Life Insurance Company (MetLife) for office
- 13 space. Cigna uses Module F and the basement of Module C for offices. The basement of Module D is used for
- building maintenance, and Modules C and D are empty.

2.4 Descriptions of Structures, Roads, Other Improvements on the Property

- 17 Tesson Ferry Road extends along a portion of the Property's eastern boundary. There are two driveways to
- 18 the Property off Tesson Ferry Road, both located in the northeastern corner of the Property. A road loops
- 19 around the north, west, and east sides of the Property connecting the two entrances and accessing all the
- 20 parking areas. The Property contains an eight-module (A through H), two-story building located at the north
- 21 central portion of the Property. Parking lots surround the building on the north, east, and west sides. A 4-acre
- 22 lake is located directly south of the building and between two of the modules. A power substation is located at
- 23 the southeastern corner of the Property.

24 2.5 Current Uses of Adjoining Properties

- 25 Adjoining properties to the south, west, and northwest are all residential. An office building, QuikTrip
- 26 convenience store, and Mehlville Fire Protection District Station No. 4 are located at the southeast boundary
- of the Property, and an office building and bank are located at the northeast boundary.

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FIGURE 2-1 Subject Property NGA Phase I Environmental Assessment Mehlville, Missouri

SECTION 3.0

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User-Provided Information

- 2 A User Questionnaire was completed by the U.S. Army Corps of Engineers (USACE) Kansas City District
- 3 (KCD) real estate team. The completed User Questionnaire is included in **Appendix A** and discussed in the
- 4 following subsections.

5 3.1 Title Records

- 6 In accordance with the contract scope of work, CH2M HILL obtained a chain-of-title from EDR for the
- 7 Property located at 13045 Tesson Ferry Road, Mehlville, Missouri, St. Louis County parcel identification
- 8 number is 30M620096, which is provided in **Appendix B**. The property was under private residential
- 9 ownership from 1951 through 1966. In 1966, the Property was deeded to Concord Homes, Inc. In 1974, the
- 10 Property was deeded back to private residential ownership. In 1986, the Property was deeded to the Tesson
- 11 Ferry Market Group Corporation, and in 1993 the Property was again deeded to the General American Life
- 12 Insurance Company.

13 3.2 Environmental Liens or Activity and Use Limitations

- 14 In accordance with the contract scope of work, EDR searched for reasonably ascertainable environmental
- liens and activity and use limitations (AULs) for the Property. No environmental liens or AULs, however,
- were found.
- 17 The User provided the following response to Questions 1 and 2 of the User Questionnaire:
- 18 (1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Are you aware
- 19 of any environmental cleanup liens against the Property that are filed or recorded under federal, tribal, state,
- 20 or local law?
- 21 The real estate team stated, "No."
- 22 (2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a
- 23 registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, land use restrictions, or
- 24 institutional controls that are in place at the Property and/or have been filed or recorded in a registry under
- 25 federal, tribal, state, or local law?
- The real estate team stated, "Zoning: C-8 permits 918,000 RSF of permitted build."

27 3.3 Specialized Knowledge

- 28 The User provided the following response to Questions 3 and 6 of the User Questionnaire:
- 29 (3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). As
- 30 the user of this ESA, do you have any specialized knowledge or experience related to the Property or nearby

- 1 properties? For example, are you involved in the same line of business as the current or former occupants of
- 2 the Property or an adjoining property so that you would have specialized knowledge of the chemicals and
- 3 processes used by this type of business?
- 4 The real estate team stated, "No."
- 5 (6.) The degree of obviousness of the presence of likely presence of contamination at the Property, and the
- 6 ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA,
- 7 based on your knowledge and experience related to the Property, are there any obvious indicators that point
- 8 to the presence or likely presence of contamination at the Property?
- 9 The real estate team stated, "No, but the information may be in the EA."

3.4 Commonly Known or Reasonably Ascertainable Information

- 12 The User provided the following responses to Question 5 of the User Questionnaire:
- 13 (5.) Commonly known or reasonably ascertainable information about the Property (40 CFR 312.30). Are
- 14 you aware of commonly known or reasonably ascertainable information about the Property that would help
- the environmental professional to identify conditions indicative of releases or threatened releases?
- 16 "Yes, an Environmental Assessment (EA) has been prepared, no significant environmental issues were
- 17 identified."

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- 18 (a.) Do you know the past uses of the Property?
- 19 The real estate team stated, "No, but the EA may provide additional information."
- 20 (b.) Do you know of specific chemicals that are present or once were present at the Property?
- 21 The real estate team stated, "No, but the EA may provide additional information."
- 22 (c.) Do you know of spills or other chemical releases that have taken place at the Property?
- 23 The real estate team stated, "No, but the EA may provide additional information."
- 24 (d.) Do you know of any environmental cleanups that have taken place at the Property?
- 25 The real estate team stated, "No, but the EA may provide additional information."

26 3.5 Valuation Reduction for Environmental Issues

- 27 The User provided the following response to Question 4 of the User Questionnaire:
- 28 (4.) Relationship of the purchase price to the fair market value of the Property if it were not contaminated
- 29 (40 CFR 312.29). Does the purchase price being paid for this Property reasonably reflect the fair market

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- 1 value of the Property? If you conclude that there is a difference, have you considered whether the lower
- 2 purchase price is because contamination is known or believed to be present at the Property?
- 3 The real estate team stated, "Has not been appraised."

4 3.6 Owner, Property Manager, and Occupant Information

- 5 The User provided CH2M HILL with the following site contact:
- 6 Vicky Poinsett
- 7 Cushman & Wakefield
- 8 Property Manager
- 9 Office Phone: 314-525-9848
- 10 Cell Phone: 314-581-5433
- 11 Email: vpoinsett@metlife.com
- 12 The User provided CH2M HILL with the following Property information:
- 13 Address: 13045 Tesson Ferry Road, St. Louis, MO 63128
- Legal description: Auguste Chouteau Estate/Lot Plats 6 and 7. Map available.

15 3.7 Reason for Performing Phase I Environmental Site Assessment

- 17 The purpose of this ESA is to identify RECs affecting the Property (using the methodology recommended by
- 18 ASTM) to satisfy the requirements for the Landowner Liability Protections (innocent landowner defense,
- contiguous property owner liability protection, and bona fide prospective purchaser liability protection)
- 20 provided by CERCLA's AAI Rule (40 CFR 312). It is also intended to help understand potential
- 21 environmental conditions that could materially impact the purchase price and proposed operations on the
- 22 Property.

23 **3.8 Other**

- 24 The User said the Property is a 99.34-acre site, with approximately 14 acres of structures and parking. There
- are eight two-story office buildings consisting of 645,520 rentable square feet (RSF) surrounded by
- 26 2,200 parking spaces. The buildings were initially constructed in 1976 and renovated in 1992. There is also a
- 27 4-acre lake.
- 28 The User was unaware of any other obvious indicators that point to the presence or likely presence of
- 29 contamination at the Property.

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Records Review

2 4.1 Standard Environmental Record Sources

- 3 A regulatory database computerized environmental report (CER) was acquired from EDR. The CER is a
- 4 listing of sites identified on select federal and state standard source environmental databases within the
- 5 approximate minimum search distance (AMSD) prescribed by ASTM E1527-05. CH2M HILL reviewed each
- 6 environmental database to determine whether certain sites identified in the CER are suspected to represent a
- 7 material negative environmental impact to the Property. **Table 4-1** lists the number of sites by regulatory
- 8 database within the prescribed minimum search distance in the CER. The CER is included in **Appendix C**.

TABLE 4-1
CER Review
Phase I Environmental Site Assessment

Databases Reviewed	ASMD	Number of Sites within ASMD
Federal National Priorities List (NPL) Site List	1 mile	1
Federal Delisted NPL Site List	1 mile	0
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) List	0.5 mile	0
Federal CERCLIS No Further Remedial Action Planned (NFRAP) Sites	0.5 mile	0
Federal Corrective Action Tracking System (CORRACTS)	1 mile	0
Federal Resource Conservation and Recovery Act Information System (RCRIS) Treatment, Storage, and Disposal (TSD) List	0.5 mile	0
Federal Resource Conservation and Recovery Act (RCRA) Generators List	Onsite and adjoining properties	0
Federal Institutional/Engineering Control Registries	Onsite	0
Federal Emergency Response Notification System (ERNS) List and Spills Information (SPILLS)	Onsite	0
State and Tribal Lists of CERCLIS Equivalent Hazardous Waste Sites Identified for Investigation and/or Remediation	1 mile	0
State and Tribal Landfills or Solid Waste Facilities (SWF) List	0.5 mile	0
State and Tribal Leaking Underground Storage Tank (LUST)	0.5 mile	2
State and Tribal Petroleum Storage Tank Registered Storage Tank Facility List	Onsite and adjoining properties	7
State and Tribal Institutional/Engineering Control Registries	Onsite	0
State and Tribal Voluntary Cleanup Sites	0.5 mile	0
State and Tribal Brownfield Sites	0.5 mile	0

10 Properties with missing or incorrect location information appear as unmapped or orphan sites in the radius

search report (EDR, 2014a). No orphan sites were identified.

- 1 A description of the databases reviewed by CH2M HILL and an analysis of sites identified within the
- 2 prescribed search area are presented as follows.

3 4.1.1 Federal Databases

4 4.1.2 National Priorities List

- 5 The National Priorities List (NPL) database is a listing of the most serious uncontrolled or abandoned
- 6 hazardous waste sites identified for possible long-term remedial action under CERCLA (also known as
- 7 Superfund). A site must be on the NPL to receive money from the Trust Fund for Remedial Action.
- 8 Analysis/Comment: The CER identified the following NPL site shown in **Table 4-2** within the AMSD.

TABLE 4-2
NPL Sites
Phase I Environmental Site Assessment

Property Name/Address	Distance (Miles)/ Direction	Presumed Hydrogeologic Relationship		Regulatory Status	
Southwest Jefferson County Mining – Silver Leak Trail and Thunder Ridge Road, 5 miles west	0.78 mile/west southwest	Downgradient	•	Large area lead site encompassing Hillsboro, Desoto, and Valles mines. The site covers all of Jefferson County.	
of Highway WW, Jefferson County, MO 63023				•	Contaminant: Lead tailings from previous mining operations.
			•	Closest Jefferson County border is near the Meramec River, a distance of approximately 0.78 mile. The Property is separated from the NPL site by the Meramec River. No history of contamination to the river is cited in the EDR report.	
			•	Most of the contamination is confined to extreme southwestern Jefferson County. The Property is located near the northeastern corner of the county.	
			•	Currently on the final NPL.	

4.1.3 Delisted National Priorities List Sites

- 11 The U.S. Environmental Protection Agency (USEPA) may delete an NPL site if it determines that no further
- 12 response is required to protect human health or the environment. Under Section 300.425(e) of the National
- Oil and Hazardous Substances Pollution Contingency Plan (55 Federal Register 8845, 8 March, 1990), sites
- that have been deleted from the NPL remain eligible for further Superfund-financed remedial action in the
- unlikely event that conditions in the future warrant such action. Partial deletions of NPL sites also can be
- 16 conducted.

9 10

17 *Analysis/Comment:* The CER did not identify any delisted NPL sites within the AMSD.

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4.1.4 Comprehensive Environmental Response, Compensation, and Liability Act Information System

- 3 The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)
- 4 is USEPA's system for tracking potential hazardous waste sites within the Superfund program. A site's
- 5 presence on CERCLIS does not imply a level of federal activity or progress at a site, nor does it indicate that
- 6 hazardous conditions necessarily exist at the location. Within 1 year after a site is entered into CERCLIS,
- 7 USEPA performs a preliminary assessment of the site. Based upon the results of that assessment, USEPA
- 8 may conduct an additional investigation, which could lead to a site being listed on the NPL.
- 9 Analysis/Comment: The CER did not identify any CERCLIS sites within the AMSD.

10 4.1.5 CERCLIS No Further Remedial Action Planned Sites

- 11 As of February 1995, CERCLIS sites designated No Further Remedial Action Planned (NFRAP) are removed
- 12 from the CERCLIS list. NFRAP sites may be sites where, following an initial investigation, no contamination
- was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the
- 14 contamination was not serious enough to warrant federal Superfund action or NPL consideration.
- 15 Analysis/Comment: The CER did not identify any CERCLA NFRAP sites within the AMSD.

16 4.1.6 Corrective Action Tracking System

- 17 The Corrective Action Tracking System (CORRACTS) is a list of facilities that are found to have had
- hazardous waste releases and require Resource Conservation and Recovery Act (RCRA) corrective action,
- 19 ranging from site investigations to remediation.
- 20 Analysis/Comment: The CER did not identify any CORRACTS sites within the AMSD.

21 4.1.7 Resource Conservation and Recovery Act Information System 22 Treatment, Storage, and Disposal List

- 23 The RCRIS Treatment, Storage, and Disposal (TSD) list contains information pertaining to those facilities
- 24 that treat, store, or dispose of hazardous waste regulated under the RCRA. While these facilities represent
- some form of hazardous waste activity, they are most significant if determined to be out of compliance or to
- have violations.

1 2

27 Analysis/Comment: The CER did not identify any RCRA TSD facilities within the AMSD.

28 **4.1.8** Resource Conservation and Recovery Act Information System Generators

- 30 The RCRIS generator database contains information pertaining to sites that generate hazardous waste
- 31 regulated under RCRA. Under RCRA, hazardous waste generators are classified by the quantity of hazardous
- waste generated in a calendar month into the following categories: Large-Quantity Generator, greater than
- 33 1,000 kilograms (kg); Small-Quantity Generator, 100 to 1,000 kg; and Conditionally Exempt Small-Quantity

- 1 Generator, less than 100 kg. RCRA generators, while they represent some form of hazardous waste activity,
- 2 are most significant if they are determined to have Class I violations or to be noncompliant.
- 3 Analysis/Comment: The CER did not identify any RCRA hazardous waste generators within the AMSD.

4 4.1.9 Federal Institutional Control and Engineering Control Registries

- 5 The Federal Institutional Control and Engineering Control Registries contain listings of sites that have
- 6 engineering and/or institutional controls in place. Engineering controls include various physical control
- devices such as fences, caps, building slabs, paved areas, liners, and treatment methods to eliminate pathways
- 8 for regulated substances to enter the environment or affect human health. Institutional controls include
- 9 administrative measures, such as groundwater use restrictions, construction restrictions, property use
- 10 restrictions, and post-remediation care requirements intended to prevent exposure to contaminants remaining
- onsite. Deed restrictions (activity and use limitations) are generally required as part of institutional controls.
- 12 Analysis/Comment: The CER did not identify the Property on the Federal Institutional Control or
- 13 Engineering Control Registries.

4.1.10 Emergency Response Notification System and Spills Information

- 15 The Emergency Response Notification System (ERNS) is a database of notifications of oil discharges and
- 16 hazardous substance releases made to the federal government. These notifications are used by "on-scene
- 17 coordinators" to determine whether emergency response and release prevention are warranted. When a call is
- made to the National Response Center or one of the 10 USEPA regions, a report is created containing all of
- 19 the release information that the caller provided. This report is transferred to an appropriate agency to evaluate
- the need for a response, and the records are electronically transferred to the ERNS database. As such, if a
- 21 reported release of oil or a hazardous substance is deemed to require a response, it also should be listed in the
- 22 appropriate federal or state environmental database, such as CERCLIS, the state equivalent of CERCLIS, or
- state leaking underground storage tank (LUST) or SPILLS lists.
- 24 Analysis/Comment: The CER did not identify any ERNS or SPILLS site within the AMSD.

25 4.1.11 State and Tribal Databases

26 4.1.12 Missouri and Tribal CERCLIS Equivalent Hazardous Waste Sites

- 27 The State Hazardous Waste Sites records are the state's equivalent of CERCLIS. These sites may or may not
- already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state
- 29 equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially
- responsible parties. The data come from the Missouri Department of Natural Resources (DNR).
- 31 Analysis/Comment: The CER did not identify any Missouri CERCLIS Equivalent Hazardous Waste Sites
- within the prescribed 1-mile search radius.

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4.1.13 Missouri and/or Tribal Solid Waste Facilities List

- 2 The Solid Waste Facilities (SWF) list is an inventory of landfills, incinerators, transfer stations, and other
- 3 sites that manage solid wastes in Missouri.
- 4 Analysis/Comment: The CER did not identify the any SWF within a 0.5-mile radius of the Property.

5 4.1.14 Missouri and/or Tribal Leaking Underground Storage Tanks List

- 6 The LUST Incident Reports contain an inventory of reported LUST incidents. The data come from the
- 7 Missouri DNR.
- 8 Analysis/Comment: The CER identified the following LUST sites within the prescribed search radius
- 9 (**Table 4-3**).

TABLE 4-3 **LUST Sites** *Phase I Environmental Site Assessment*

Property Name/Address	Distance (Miles)/ Direction	Presumed Hydrogeologic Relationship	Regulatory Status
Shell Station – 13090 Tesson Ferry Road, St. Louis, MO 63128	0.021 mile/east southeast	Upgradient	 Release Date: 08/25/1999. Cleanup Finished: 03/14/2002.
			• Date of NFA Letter from DNR: 03/22/2002
MPI 20 – 13117 Tesson Ferry Road, Mehlville, MO 63128	0.045 mile/ southeast	Upgradient	 Release Date: 12/08/1993. Date Cleanup Finished: 11/21/1994.
			• Date of NFA Letter from DNR: 11/21/1994

10 4.1.15 Missouri and/or Tribal Registered Storage Tanks Facility List

- 11 The Storage Tank Database contains registered storage tanks. USTs and ASTs are regulated under Subtitle I
- of RCRA. The data come from the Missouri DNR.
- 13 Analysis/Comment: The CER identified the following registered storage tanks within the prescribed search
- 14 radius (**Table 4-4**):

TABLE 4-4 **USTs/ASTs** *Phase I Environmental Site Assessment*

Property Name/Address	Distance (Miles)/ Direction	Presumed Hydrogeologic Relationship	Regulatory Status
General American Life Insurance Company – 13045 Tesson Ferry Road, St. Louis, MO 63128	0.014 mile/east southeast	Cross Gradient	UST: 500-gallon fiberglass tank. Substance: Gasoline. Tank Status: Removed
Shell Station – 13090 Tesson Ferry Road, St. Louis, MO 63128	0.021 mile/east southeast	Cross Gradient	UST: 10,000-gallon fiberglass tank. Substance: Gasoline. Tank Status: Removed

TABLE 4-4 USTs/ASTs

Phase I Environmental Site Assessment

Property Name/Address	Distance (Miles)/ Direction	Presumed Hydrogeologic Relationship	Regulatory Status
MPI 20 – 13117 Tesson Ferry Road, St. Louis, MO 63128	0.045 mile/southeast	Cross Gradient	UST: 10,000-gallon fiberglass tank. Substance: Gasoline.
			Tank Status: Removed 04/21/2006
QuikTrip Store #678 – 13099 Tesson Ferry Road, St. Louis, MO	0.057 mile/southeast	Cross Gradient	UST: 20,000-gallon fiberglass tank. Substance: Gasoline.
63128			Tank Status: Currently in use.
Petro Mart #21 – 13010 Tesson Ferry Road, St. Louis, MO 63128	0.058 mile/east- northeast	Upgradient	UST: 20,000-gallon fiberglass tank. Substance: Gasoline. Tank Status: Currently in use.
			UST: 6,000-gallon fiberglass tank. Substance: Gasoline.
			Tank Status: Currently in use.
QuikTrip Store #678 – 13099 Tesson Ferry Road, St. Louis, MO 63128	0.057 mile/southeast	Cross Gradient	AST: Gasoline Dispensers: 60. Product 87, 89, 93.
Petro Mart #21 – 13010 Tesson Ferry Road, St. Louis, MO 63128	0.058/east-northeast	Upgradient	AST: Gasoline Dispensers: 64. Product 87, 89, 93

4.1.16 Missouri and Tribal Institutional Land Use Control Registries

- 2 The Land Use Control Information System database lists properties within the state with recorded institutional
- 3 controls.

1

11

- 4 Analysis/Comment: The CER did not identify any sites with recorded institutional controls within the
- 5 prescribed search radius.

6 4.1.17 Missouri and Tribal Voluntary Cleanup Program Sites

- 7 The Missouri and Tribal Voluntary Cleanup Program database lists sites where voluntary cleanup is
- 8 occurring.
- 9 Analysis/Comment: The CER did not identify any state or tribal Voluntary Cleanup Program sites within the
- 10 prescribed search radius.

4.1.18 Missouri and Tribal Brownfield Sites

- A Brownfield site is defined as "an abandoned, idled, or underused industrial or commercial facility, where
- 13 expansion or redevelopment has been complicated by real or perceived environmental contamination." The
- 14 Brownfield Program allows a non-responsible party to acquire a contaminated property with state liability
- 15 protection for existing contamination by agreeing to perform an environmental assessment and/or
- remediation. The amount of environmental work is site-specific and dependent on the intended future use of
- 17 the site.
- 18 Analysis/Comment: The CER did not identify any Brownfield sites within a 0.5-mile radius of the Property.

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4.1.19 Other Ascertainable Records

2 **Table 4-5** provides a list of other environmental records identified within the CER.

TABLE 4-5
Other Ascertainable Records

1

3

4

Phase I Environmental Site Assessment

Property	Distance (Miles)/	Presumed Hydrogeologic	Database	
Name/Address	Direction	Relationship		Regulatory Status
Metropolitan Life Insurance Company – 13045 Tesson Ferry Road, St. Louis, MO 63128	0.014 mile/east- southeast	Cross Gradient	RCRA NonGen/ NLR	Classification: Non- Generator.
Senetek – 13131 Tesson Ferry Road, St. Louis, MO 63128	0.057 mile/southeast	Cross Gradient	RCRA NonGen/ NLR	Classification: Non- Generator.
Vickers – 13177 Tesson Ferry Road, St. Louis, MO 63128	0.115 mile/south- southeast	Cross Gradient	RCRA NonGen/ NLR	Classification: Non- Generator.
Automotive Services – 496 Butler Hill Road, St. Louis, MO 63128	0.182 mile/east- northeast	Cross Gradient	RCRA NonGen/ NLR	Classification: Non- Generator.
Southwest Jefferson County Mining – Silver Leak Trail and Thunder Ridge Road, 5 miles west of Highway WW, Jefferson County, MO 63023	0.78 mile/west- southwest	Downgradient	ROD	As noted in Section 4.1.2 above, the NPL encompasses all of Jefferson County. The Property is located 0.78 mile northeast of the county border. Most of the contamination is confined to extreme southwestern Jefferson County, and the Property is located in the northeastern corner of the county.
Dial Cleaners – 13078 Tesson Ferry Road, St. Louis, MO 63128	0.016 mile/east- southeast	Cross Gradient	DRYCLEANERS	Facility Status: Not Reported.
Cleaners 21 – 13142 Tesson Ferry Road, St. Louis, MO 63128	0.073 mile/southeast	Cross Gradient	DRYCLEANERS	Facility Status: Not Reported.
Laundry 21, Inc. – 13210 Tesson Ferry Road, St. Louis, MO 63128	0.16 mile/south southeast	Upgradient	DRYCLEANERS	Facility Status: Not Reported.

4.2 Additional Environmental Record Sources

- 5 No additional environmental records or reports were identified for the Property. The following information
- 6 was provided from the CER or from additional sources.

1

4.2.1 Topography

- 2 According to the 1974 U.S. Geological Survey (USGS) MetLife, St. Louis, Missouri, 7.5-minute series
- 3 topographic map, the Property's elevation ranges from approximately 600 feet above mean sea level (amsl) in
- 4 the northern portion of the Property to 550 feet amsl in the southern portion of the Property. The topography
- 5 in the immediate area is relatively flat, but the elevation gradually decreases towards the west. Based on the
- 6 topographic map review, the Property is at a similar or higher elevation as the adjoining and surrounding
- 7 areas in all directions (EDR, 2014b).

8 4.2.2 Hydrogeology

- 9 Under natural, undisturbed conditions, shallow groundwater flow generally follows the topography of the
- 10 land surface, and on this basis, the topography suggests that localized groundwater would flow south toward
- 11 Butler Lakes. The general groundwater flow direction was not reported in the AQUIFLOW Information
- 12 System provided in the EDR Report. Several water wells were identified within the 1.25-mile search radius
- 13 (EDR, 2014b).

14 4.2.3 Surface Waters

- 15 Stormwater drainage ditches border most of the Property, and all the ditches eventually discharge in a large
- retention pond located in the middle of the Property. The nearest free-flowing water source is the Meramec
- 17 River, located approximately 1 mile west of the Property. Butler Lakes, the largest body of standing surface
- water in the area, is approximately 2.5 miles southwest of the Property.

19 **4.2.4** Soils

- 20 Urban Land-Harvester complex (2 to 9 percent slopes) is the predominant soil type on the Property followed
- by the Crider-Menfro silt loams (14 to 30 percent slopes), both of which occur in the southeastern portion of
- the Property (NRCS, 2014). The Urban Land-Harvester complex (2 to 9 percent slopes) is comprised of
- 23 approximately 50 percent each of urban land and harvester soils. The Harvester complex is classified as
- 24 moderately drained with a typical soil profile of silt loam from 0 to 7 inches, silty clay from 7 to 31 inches,
- and clay loam from 31 to 80 inches. The Crider-Menfro silt loams (14 to 30 percent slopes) are also
- 26 comprised of approximately 50 percent each of Crider and Menfro soils. The Crider complex (14 to 30
- 27 percent slope) is classified as well drained with a typical soil profile of silt loam from 0 to 11 inches and silty
- clay loam from 11 to 60 inches. The Menfro complex (14 to 30 percent slopes) is classified as well drained
- 29 with a typical soil profile of silt loam from 0 to 3 inches, silty clay loam from 3 to 45 inches, and silt loam
- from 45 to 80 inches. Depth to the water table is greater than 80 inches (NRCS, 2014). None of the soil types
- found on the Property is classified as prime farmland (NRCS, 2014).

4.3 Historical Use Information on the Property

- 33 Historical research documentation, including historical aerial photographs, topographic maps, fire insurance
- maps, and city directories, is included in **Appendix D**. The Property was historically used for farmland and

35 commercial/administrative space.

32

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4.3.1 Topographic Maps

- 2 CH2M HILL reviewed historical St. Louis, Missouri, topographic maps of the Property provided by EDR
- 3 (EDR, 2014b). A summary of the findings is presented in **Table 4-6**.

TABLE 4-6 **Historical Topographic Map Findings** *Phase I Environmental Site Assessment*

Year Revised	Property	Adjacent and Surrounding Properties
1916	No structures appear on the Property. An intermittent creek is shown traversing the Property from north to south.	Hageman School and Washington School are located to the west and northwest, respectively. The Meramec River is also observed to the west and south, and Butler Lakes are shown to the west. Keller Road is located west of the Property and Tesson Ferry Road extends along the eastern side of the Property. An east-west road extends approximately midway between the southern Property boundary and the Meramec River. Small structures are shown along the road, adjacent to the Property.
1948	No significant differences are noted.	No significant differences are noted.
1954	A few small structures appear near the northeastern Property boundary.	Additional structures appear along Keller and Tesson Ferry Roads. Two large gasoline tanks appear along the east side of Tesson Ferry Road, east of the Property, and an unpaved road is shown south of the Property. Hageman School is no longer identified on the map.

4 5

14

1

4.3.2 Historical Maps

- 6 Sanborn Maps constitute a source of information about prior site uses of real property for many cities and
- 7 towns in the United States. The maps originally were created to assist insurance underwriters in understanding
- 8 the potential fire risk of structures requiring insurance; however, they are also useful in identifying previous
- 9 uses of a property. Sanborn Maps often contain information relating to uses of individual structures, the
- 10 location of certain petroleum and chemical storage tanks, and the storage of other potentially toxic substances.
- 11 Sanborn Maps begin their coverage in 1867 and continue through the 1990s.
- 12 EDR searched for Sanborn Maps. However, this search did not identify Sanborn Map coverage in the vicinity
- of the Property.

4.3.3 Aerial Photographs

- 15 Aerial photographs provide visual documentation of site conditions at the time of the photographs. Activities
- such as dumping or industrial use of a site can often be discerned through the examination of historical aerial
- 17 photographs. CH2M HILL reviewed historical aerial photographs provided by EDR (EDR, 2014c), and
- downloaded from Google EarthTM (Google Earth, 2014), which are included in **Appendix D**. A synopsis of
- the aerial photographs reviewed is presented in **Table 4-7**.

TABLE 4-7 **Aerial Photograph Findings** *Phase I Environmental Site Assessment*

Year	Property	Adjacent and Surrounding Properties
1937	A residential structure is located on the eastern portion of the Property. However, the majority of the Property appears to be cultivated fields.	Numerous areas on the Property appear to be cultivated fields. Forested areas extending along drainages between the fields are also visible. Structures appear northwest, east, and south. Two main roadways, Keller Road and Tesson Ferry Road, are shown running along the eastern and western boundaries of the Property, respectively. A small pond is located north of the Property.
1941	No significant differences from the 1937 aerial.	No significant differences from the 1937 aerial.
1953	No significant differences from the 1941 aerial.	No significant differences are observed with the exception of the additional development of structures and roadways.
1958	No significant differences from the 1953 aerial.	Ground clearing has occurred where a residential structure previously appeared south of the Property. Significant development and new structures are visible to the northwest and southeast of the Property.
1968	No significant differences from the 1958 aerial.	Significant development has occurred on the east side of Tesson Ferry Road. New residential neighborhoods are visible both north and south of the Property, and a tank is now visible to the northeast, on the east side of Tesson Ferry Road. A stormwater pond can be seen in the housing area east of the Property.
1971	No significant differences from the 1968 aerial.	Development has been confined primarily to the north, east, and west, while areas to the south remain largely undeveloped. A new subdivision is visible southwest of the Property.
1974	No significant differences from the 1971 aerial.	No significant differences from the 1971 aerial.
1985	A large commercial building owned by General American Life Insurance Company has been developed with parking lots and a small lake. Only five of the eight modules are visible. The modules located furthest west and southeast in the Property's present-day configuration have not yet been constructed.	The number of ponds has increased from one to eight in the surrounding properties. A large commercial/warehouse structure is visible southeast of the Property, on the east side of Tesson Ferry Road.
1988	A module has been added to the southeast. No significant changes, however, are visible.	No significant differences from the 1985 aerial.
1992	The westernmost module has been added. The parking area along the west side has been expanded and reshaped to facilitate additional parking spaces.	Additional residential development is visible to the north.
1996	No significant differences from the 1996 aerial.	Structures have been developed on adjacent properties to the north and northeast. A second tank is visible next to the first tank northeast of the Property, on the east side of Tesson Ferry Road.
2007	Trees are now visible in and around the parking lots. Additional landscaping appears between the parking lots and Tesson Ferry Road as well as north of the buildings and around the pond.	The surrounding and adjacent areas to the north and west are typically residential neighborhoods, and industrial or commercial structures are seen to the east and south.
2009	No significant differences from the 2007 aerial.	No significant differences from the 2007 aerial.
2010	No significant differences from the 2009 aerial.	No significant differences from the 2009 aerial.
2012	No significant differences from the 2010 aerial.	No significant differences from the 2010 aerial.

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4.3.4 City Directories

1

- 2 City directories provide tenant listings, by address, for every year covered by the directory service. The EDR
- 3 city directory abstract included a directory review for the Mehlville Property and adjacent properties for the
- 4 following years: 2013, 2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960,
- 5 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, and 1930. General American Life Insurance
- 6 Company is listed from 1979 until 2006 in the city directory. MetLife is listed from 2008 until 2013 along
- 7 with Cigna, Eurest Dining, and Locksmith Mobile. There were no other previous uses of the adjacent
- 8 properties that would be suspected of degrading its environmental quality (EDR, 2014d). A complete copy of
- 9 the EDR city directory abstract is included in **Appendix D**.
- 10 Based on EDR's city directory abstracts, there were no previous uses of the Property that would be suspected
- of degrading the environmental quality.

12 4.3.5 Previous Reports

No previous reports or documents related to the environmental condition of the Property have been found.

14 4.4 Historical Use Information on Adjoining Properties

- 15 Information about historical use of adjoining properties as identified in available historical resources has been
- 16 described previously in this section.

17 4.5 Non-Scope Considerations

Non-scope considerations were reviewed and are described as follows.

19 4.5.1 Asbestos-Containing Building Materials

- 20 The use of most spray-on surface applications of asbestos-containing materials (ACMs) was banned by the
- 21 National Emission Standards for Hazardous Air Pollutants (NESHAP) during the 1970s. Specifically,
- 22 asbestos-containing spray-on fireproofing and insulation were banned under NESHAP in 1973, followed by a
- ban on decorative spray-on applications in 1978. In 1975, NESHAP also banned the installation of wet-
- 24 applied and pre-formed asbestos-containing pipe insulation and pre-formed boiler and hot water tank
- insulation. Although revised in 1990, NESHAP still prohibits spray-on applications of ACM to buildings,
- structures, pipes, and conduits unless such material is encapsulated in a bituminous or resinous binder that is
- 27 not friable after drying.
- 28 Under the Toxic Substance Control Act, the use of asbestos-containing corrugated paper, roll-board,
- commercial paper, specialty paper, flooring felt, and new uses of asbestos were banned in 1989.
- 30 Notwithstanding the forgoing, most U.S. firms voluntarily ceased production of asbestos-containing building
- materials not covered by the aforementioned federal bans by the mid-1980s.
- 32 According to aerial photographs, five of the eight modules as well as connecting hallways were constructed
- prior to 1978. Consequently, ACM is potentially present in and on these portions of the structures.

1

4.5.2 Radon

- 2 Radon is a naturally occurring, colorless, odorless gas that is a byproduct of the decay of radioactive materials
- 3 potentially present in bedrock and soil. Radon gas may enter the lowest level of a building through floor
- 4 cracks, structural joints, or plumbing conduits. The concentration of radon gas in a building depends on
- 5 subsurface soil conditions, the integrity of the building's foundation, and the building's ventilation system.
- 6 The potential adverse health effects associated with radon gas depend on various factors, such as the
- 7 concentration of the gas and duration of exposure. The USEPA guidance action level for annual residential
- 8 exposure to radon is 4 picoCuries per liter (pCi/L) of air. The guidance action level is not a regulatory
- 9 requirement for private owners of real property, but is commonly used for comparison purposes to suggest
- whether further action at a building may be prudent.
- 11 CH2M HILL reviewed information on the USEPA Map of Radon Zones website (USEPA, 2014). St. Louis
- 12 County was listed as a Zone 2 area, with an average predicted indoor radon screening level between 2 and
- 4 pCi/L. Radon information provided in the EDR Report indicated that 13 sites tested between 2004 and 2009
- within zip code 63128 (which includes Mehlville) recorded indoor radon levels in the first-floor living area
- and basement area averaging 1.900 and 2.969 pCi/L, respectively (EDR, 2014a).

16 4.5.3 Lead-Based Paint

- 17 Lead-based paint (LBP) is a hazard in structures constructed before 1978. Lead accumulates in the body and
- 18 can cause significant health problems in small children when ingested. According to aerial photographs, five
- of the eight modules as well as connecting hallways were constructed prior to 1978. Consequently, LBP is
- 20 potentially present in and on these portions of the structures.

21 4.5.4 Lead in Drinking Water

- Lead can enter drinking water supplies from the corrosion of pipes and plumbing fixtures. Drinking water left
- 23 standing for several hours or more in lead pipes or in plumbing systems containing lead can result in the lead
- 24 dissolving in the water. Elevated levels of lead can cause serious health problems, especially for pregnant
- women and young children.

32

- 26 The City of St. Louis Water Division has taken measures to remove lead from the city water supply. The 2013
- 27 Water Quality Report for the city of St. Louis indicates that lead was detected at concentrations well below
- 28 safe and acceptable limits (American Water, 2013). However, the city cannot control the pipes and plumbing
- 29 fixtures in residential and commercial structures. If water has been sitting for several hours in a home or
- 30 business, the City of St. Louis Water Division recommends letting the water run from the tap for 30 seconds
- 31 to 2 minutes before using it for drinking or cooking to help prevent lead exposure (American Water, 2013).

4.5.5 Polychlorinated Biphenyls

- 33 Electrical transformers, electrical equipment, light ballasts, and machinery with hydraulic systems are
- 34 potential sources of polychlorinated biphenyl (PCB)-containing oil. No PCB surveys for the Property were

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- 1 reviewed. During site reconnaissance, several pad-mounted transformers were identified within the building,
- and all were labeled "Non-PCB."
- 3 Light ballasts in the buildings were not checked to determine if they contain PCBs.

4 4.5.6 Regulatory Compliance

5 No known regulatory compliance issues were found at the Property.

6 4.5.7 Industrial Hygiene

7 No industrial activities are known to occur on the Property.

8 4.5.8 Health and Safety

9 No health and safety related activities are known to occur on the Property.

10 4.5.9 Indoor Air Quality

- No records of indoor air quality were provided. The building interiors were observed during site
- 12 reconnaissance.

13 4.5.10 Pesticides and Herbicides

14 Pesticides and herbicides were not identified during site reconnaissance.

15 **4.5.11 Mold**

No mold was observed in the building interiors during site reconnaissance.

SECTION 5.0

1

Site Reconnaissance

- 2 On December 16, 2014, CH2M HILL personnel performed a visual reconnaissance of surface conditions at
- 3 the Property. Weather conditions at the time were partly cloudy with temperatures of approximately
- 4 40 degrees Fahrenheit (°F). Mike Brose/CH2M HILL was accompanied by Mr. Avdu Opardija, the building
- 5 maintenance contractor, during the site reconnaissance. Photographs from the site reconnaissance are
- 6 presented in **Appendix E**.

7 5.1 Methodology and Limiting Conditions

- 8 A walking reconnaissance was conducted to visually survey the Property and identify historical and/or current
- 9 RECs. The methodology used involved walking the Property and documenting in all directions the current
- 10 conditions and surrounding properties. All trails and dirt roads were also walked and visually surveyed during
- the reconnaissance, as were all building interiors. Photographs taken during the survey are included in
- 12 Appendix E.

13 5.2 General Site Setting

- 14 The Property comprises 99.34 acres and consists of an eight-module, two-story building with connecting
- hallways. Parking lots surround the building on the north, east, and west sides. A 4-acre lake is located
- directly south of the building and between two of the modules. The southern portion of the Property is
- 17 wooded with several small streams. The surrounding properties are largely residential.

18 5.3 Exterior Observations

- 19 The exterior observations included the areas immediately surrounding the building, the parking lots, and the
- 20 wooded area at the south end of the Property. The observations are as follows:
- A 5-acre lake is located south of the building and drains to a stream through an outfall at the south end of
- the pond.
- Small stains were observed in several parking spaces.
- An empty 55-gallon drum was found next to other metal debris in a wooded area at the northern Property
- boundary. The drum appeared to be intact and no staining or stressed vegetation was observed.
- An unlabeled, empty, rusted 55-gallon drum was observed in the southern portion of the Property. No
- staining or stressed vegetation was observed.
- Remnants of an old automobile were observed in the wooded area at the south end of the Property.
- Asphalt pieces were found dumped in the wooded area in the southwestern portion of the Property.
- Plastic pots were found dumped in the wooded area in the southwestern portion of the Property.

- Plastic piping was found dumped in the wooded area in southwestern portion of the Property.
- Siding was found dumped in the wooded area in southwestern portion of the Property.
- Gravel and mulch piles were located off the dirt trail in the western portion of the Property.
- 4 A snow removal equipment laydown area, which included plows, a storage container, and backhoe, is
- 5 located in the parking lot at the west side of the Property.
- A power substation is located at the south end of the Property and surrounded by a chain-link fence.
- A used grease container was observed at the loading dock area. Some small stains were observed on the
- 8 concrete around the container.

5.4 Interior Observations

- 10 The interior observations included all three levels (first and second stories, and basement) of the eight
- modules, and the penthouses on the roofs of each module. The observations included:
- Non-PCB transformers were located in basement of the building.
- Two elevator hydraulic system spills were observed within the elevator rooms. Adsorbent material was
- placed under the former leaks. The leaks appear to have been very small. The adsorbent material was
- stained but not wet.

9

- The maintenance area in the basement had storage for spray paints, lubricants, cleaners, degreasers, etc.
- No spills or staining was observed.
- A battery and transformer recycling collection area was observed in the basement.
- Used light bulbs are collected and stored in the basement. No releases from broken bulbs were observed.
- Two racks of lead-acid batteries used for backup power were observed in the basement. One rack
- 21 contained 160 batteries and the other rack held eight batteries. The batteries appear to be in good
- condition and no leaks or spills were observed.
- Two grease traps were located in the kitchen.
- A forklift charging station was observed in the basement. No signs of acid releases were observed.
- 25 Battery maintenance is not performed on the Property.
- Water treatment chemicals for the building's cooling system were observed in secondary containers. No
- leaks or spills were observed.

29

• A used ink cartridge collection area was observed in the basement. No spills were observed.

5-2 ES093014083520ATL

SECTION 6.0

1

Interviews

2 This section summarizes relevant information obtained from the interviews conducted by CH2M HILL.

3 6.1 Interviews with Owners

4 The current Property owners were not available for interview during the site reconnaissance.

5 6.2 Interview with Property Representatives

- 6 Mr. Avdu Opardija, the building's maintenance contractor, was interviewed during the site reconnaissance on
- 7 December 16, 2014. He had no knowledge or records of any incidents that would affect the environmental
- 8 condition of the Property.

9 6.3 Interviews with Local Government Officials

- 10 6.3.1 Mehlville Fire Protection District
- Mr. Ed Berkle, fire marshal with the Mehlville Fire Protection District, was contacted on January 12, 2015.
- 12 He was not aware of any storage tanks or hazardous materials on the Property. He had no knowledge or
- records of any incidents that would affect the environmental condition of the Property.
- 14 6.3.2 St. Louis County Health Department
- 15 The St. Louis Health Department was contacted on January 5, 2015, but had not yet responded at the time this
- 16 report was prepared.

17

SECTION 7.0

1

Findings

- 2 The findings of this Phase I ESA are as follows:
- Two elevator hydraulic system spills were observed within the elevator rooms. Adsorbent material was
- 4 placed under the former leak. The leaks appear to have been very small. The adsorbent material was
- 5 stained but not wet.
- Small oil stains were observed in several parking spaces.
- A used grease container was observed at the loading dock area. Some small stains were observed on the
- 8 concrete around the container.
- An unlabeled, empty 55-gallon drum was found next to other metal debris in the wooded area at the
- 10 northern Property boundary. The drum appeared to be intact and no staining or stressed vegetation was
- observed.
- An unlabeled, empty, rusted 55-gallon drum was observed at the southern portion of the Property. No
- staining or stressed vegetation was observed.
- Asphalt pieces were observed dumped in the wooded area in the southwestern portion of the Property.

15

SECTION 8.0

1

Opinion

- 2 This section presents the opinion(s) concerning the impact on the conditions identified in Section 7 and the
- 3 logic and reasoning used in evaluating information collected during the investigation. In the opinion of the
- 4 Environmental Professionals conducting the investigation and preparing this ESA report, the conditions
- 5 described in Section 7 have resulted in the following environmental conditions or concerns at the Property.

6 8.1 Recognized Environmental Conditions

- 7 RECs are defined as the presence or likely presence of a hazardous substance or petroleum product on the
- 8 property under conditions that indicate an existing release, a past release, or material threat of a release of
- 9 hazardous substances or petroleum products into the structures of the property or into the ground,
- 10 groundwater, or surface water of the property. The term includes hazardous substances or petroleum products
- even under conditions in compliance with applicable laws. The term is not intended to include *de minimis*
- conditions that generally do not present a material risk of harm to public health or the environment and that
- generally would not be subject to enforcement action if brought to the attention of the appropriate government
- 14 agencies.

16

15 The ESA did not find evidence of an REC on the Property.

8.2 Controlled Recognized Environmental Conditions

- 17 A controlled recognized environmental condition (CREC) is defined in the ASTM guidelines as an REC
- 18 resulting from a past release of hazardous substances or petroleum products that has been addressed to the
- 19 satisfaction of the applicable regulatory authority (as evidenced by the issuance of a no further action letter or
- 20 equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or
- 21 petroleum products allowed to remain in place subject to the implementation of required controls (such as,
- 22 property use restrictions, activity use limitations (AULs), institutional controls, or engineering controls).
- The ESA did not find evidence of a CREC on the Property.

24 8.3 Historical Recognized Environmental Conditions

- 25 A historical REC is defined as one that in the past would have been considered an REC, but which is not
- currently considered an REC. If a past release of a hazardous substance or petroleum product has occurred in
- 27 connection with the Property and has been remediated, with such remediation accepted by a responsible
- 28 regulatory agency, this condition is considered a historical REC. A historical REC is not an REC.
- 29 The ESA did not find evidence of a historical REC on the Property.

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8.4 *De Minimis* Conditions

- 2 De minimis conditions are conditions that generally do not present a material risk of harm to public health or
- 3 the environment and that generally would not be subject to an enforcement action if brought to the attention
- 4 of the appropriate government agencies. Conditions determined to be *de minimis* are not RECs.
- 5 The ESA found evidence of the following *de minimis* condition on the Property:
- Small oil stains were observed in several parking spaces, most likely from leaking automobile engines.

7 8.5 Findings Not Resulting in Any Above Condition

- 8 The findings did not result in a *de minimis* condition, historical REC, or REC; however, the following
- 9 potential environmental concern was identified:
- An empty 55-gallon drum was found next to other metal debris in a wooded area at the northern Property boundary. The drum appeared to be intact and no staining or stressed vegetation was observed.
- An unlabeled, empty, rusted 55-gallon drum was observed in the southern portion of the Property. No
 staining or stressed vegetation was observed.
- Asphalt pieces were observed dumped in a wooded area in the southwestern portion of the Property.

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SECTION 9.0

Conclusions

- 2 CH2M HILL performed this Phase I ESA of the Property in conformance with the scope and limitations of
- 3 ASTM E1527-13. Any exceptions to, or deletions from, this Practice are described in Section 1.4.
- 4 No RECs were found on the Property. *De minimis* staining within several parking spaces was observed.
- 5 Several conditions were not identified as RECs but have the potential be an environmental concern. Two
- drums were found in wooded areas on the Property. The drums were empty and no staining or stress
- 7 vegetation were observed. Based on corrosion, it appears these drums had been at these locations for some
- 8 time. Broken asphalt was found in the wooded area. Asphalt contains polycyclic aromatic hydrocarbons
- 9 (PAHs), and there is a possibility that PAHS could enter the environment if the asphalt breaks down.

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ES093014083520ATL 9-

SECTION 10.0

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Deviations and Data Gaps

- 2 The Phase I ESA was performed in accordance with ASTM E1527-13 and is limited to the practices set forth
- 3 in the Practice. Deviations from the Practice include the following:
- Interviews with the previous owners and adjacent property owners were not performed.
- Site history documentation (aerial photographs, topographical maps, City Directories, and Sanborn Maps)
- 6 were not available in 5-year intervals and, therefore, could not be reviewed for all time periods.

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SECTION 11.0

1

Additional Services

2 No additional services outside the scope of work were provided.

ES093014083520ATL 11-1

SECTION 12.0

1

References

- 2 American Water. 2013. Annual Water Quality Report for St. Louis County/St. Charles County. PWS ID:
- 3 M06010716. http://www.amwater.com/moaw/water-quality-and-stewardship/water-quality-reports.html
- 4 Environmental Data Resources, Inc. (EDR). 2014a. The EDR Radius Map Report with GeoCheck, 13045
- 5 Tesson Ferry Road, Saint Louis, MO 63128. Inquiry number: 4085433.2s. September.
- 6 Environmental Data Resources, Inc. (EDR). 2014b. The EDR Historical Topographic Map Report, 13045
- 7 Tesson Ferry Road, Saint Louis, MO 63128. Inquiry number: 4085433.2s. September.
- 8 Environmental Data Resources, Inc. (EDR). 2014c. The EDR Aerial Photo Decade Package, 13045 Tesson
- 9 Ferry Road, Saint Louis, MO 63128. Inquiry number: 4085433.2s. September.
- 10 Environmental Data Resources, Inc. (EDR). 2014d. The EDR-City Directory Abstract, 13045 Tesson Ferry
- Road, Saint Louis, MO 63128. Inquiry number: 4085433.2s. September.
- 12 Natural Resources Conservation Service. 2014. "Online Web Soil Survey."
- 13 http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx. Accessed 17 November 2014.
- 14 U.S. Environmental Protection Agency (USEPA). 2014. Where You Live, Missouri Radon Levels.
- 15 http://www.epa.gov/radon/states/missouri.html, Accessed 17 November 2014.

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SECTION 13.0

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18

Signature of Environmental Professional

2 I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental 3 Professional as defined in 40 CFR 312.10. I have specific qualifications (see Section 14) based on education, 4 training, and experience to assess the nature, history, and setting of the Property. This investigation is in general conformance with the standards and practices set forth in 40 CFR 312. Qualifications of 5 6 Environmental Professionals included in **Appendix F**. 7 8 9 10 Mike Brose 11 Task Manager 12 13 14 15 Dave Stieb 16 17 Senior Reviewer

ES093014083520ATL 13-1

SECTION 14.0

1

Qualifications of Environmental Professionals

- 2 Resumes of the Environmental Professionals involved in the preparation of this report are located in
- 3 **Appendix F** and include the following:
- Mike Brose task manager and report writing
- 5 David Stieb technical support and quality control

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AAI Questionnaire-Site #5-MetLife

In accordance with ASTM 1527-05 and in order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the user (client or client representative) must provide the following information (if available) to the *environmental professional* (CH2M HILL). Failure to provide this information could result in a determination that "all appropriate inquiry" (AAI) is not complete.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

No.

2. Are you aware of any area use limitations (AULs), such as engineering controls, land use restriction or institutional controls that are in place at the property and/or have been filed or recorded in a registry under federal, trial, state or local law?

Zoning: C-8 permits 918,000 RSF of permitted build.

3. As the *user* of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No.

4. Does the purchase price being paid for this property reasonable reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Has not been appraised.

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases?

Yes, an Environmental Assessment (EA) has been prepared, no significant environmental issues were identified.

a. Do you know the past uses of the property?

No, EA may provide additional information.

b. Do you know of specific chemicals that are present or once were present at the property?

No, EA may provide additional information.

c. Do you know of spills or chemical releases that have taken place at the property?

No, EA may provide additional information.

d. Do you know of any environmental cleanups that have taken place at the property?

No, EA may provide additional information.

6. As the *user* of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

No, EA may provide additional information.

In addition to the above questions, certain information should be collected, if available, and provided to the *environmental professional*. This information is intended to assist the *environmental professional*, but is not necessarily required to qualify for one of the LLPs.

7. The reason why the ESA is required (i.e. sale, purchase, exchange, etc.).

Proposed purchase.

8. The complete name, correct address and/or parcel number for the property (a map or other documentation showing property location and boundaries is helpful).

Address: 13045 Tesson Ferry Rd., St Louis, MO 63128 Legal description: Auguste Chouteau Estate/Lot Plats 6 and 7. Map available.

9. A description of the property (i.e. acreage, square footage, number of buildings, other structures, age of buildings, above/underground storage tanks, etc.)

A 99.34 acre site. About 14 acres of structure and parking. Eight two-story office buildings consisting of 645,520 RSF surrounded by 2,200 parking spaces. Buildings were initially constructed in 1976 and renovated in 1992. There is a four-acre pond.

10. Knowledge or previous owners and/or previous uses of the property?

No, EA may provide additional information.

11. Current or previous deeds?

Not yet ordered.

12. The site contact name and number.

Vickie Poinsett Cushman & Wakefield Property Manager Phone: 314-525-9848

Cell Phone: 314-581-5433

Email: vpoinsett@metlife.com

13. Previous reports available? Any other available documentation, correspondence, etc. concerning the environmental condition of the property?

Yes, EA should provide additional information.

Site Name: Mehlville 13045 Tesson Ferry Road Saint Louis, MO 63128

Inquiry Number: 4175433.1S

January 22, 2015

The EDR 1940 Chain of Title



6 Armstrong Road Shelton, CT 06484 800.353.0050 www.edrnet.com

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property

A network of professional abstractors following established procedures, uses client supplied address Information to locate:

- Historical Chain of Title research
- Leases and Miscellaneous

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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TARGET PROPERTY INFORMATION

ADDRESS

13045 Tesson Ferry Road Saint Louis, MO 63128

Research Source

Official Public Records

EXAMINER"S NOTE: Public records of St. Louis County, were searched from January 1, 1940 to January 15, 2015, and no other deeds vesting title in the subject property were found of record during the period searched.

PROPERTY DESCRIPTION

Current Owner: General American Life Insurance Company

Legal Description: See deeds attached

Property Identifiers: 30M620096

General Comments:

HISTORICAL CHAIN OF TITLE

See Exhibit "A"

Chain of Title

Exhibit "A"

HISTORICAL CHAIN OF TITLE

Type of Deed: Quit Claim Deed

Title is vested in: General American Life Insurance Company

Title received from: Tesson Ferry Market Group Corp.

 Date Executed:
 8-13-1993

 Date Recorded
 9-09-1993

 Book:
 9872

 Page:
 16

Instrument #: Comments:

Type of Deed: General Warranty Deed

Title is vested in: Tesson Ferry Market Group Corp.

Title received from: General American Life Insurance Co.

 Date Executed:
 9-08-1986

 Date Recorded
 9-11-1986

 Book:
 7978

 Page:
 2322

Instrument #: Comments:

Type of Deed: General Warranty Deed

Title is vested in: General American Life Insurance Co.

Title received from: William I. Neely and Janet K. Neely, his wife

 Date Executed:
 11-16-1976

 Date Recorded
 11-16-1976

 Book:
 7012

 Page:
 2381

Page:
Instrument #:
Comments:

Type of Deed: Deed

Title is vested in: William I. Neely and Janet K. Neely, his wife

Title received from: Charmaine Nottelmann

 Date Executed:
 8-16-1974

 Date Recorded
 8-25-1974

 Book:
 6748

 Page:
 1883

Instrument #: Comments:

Type of Deed: Warranty Deed

Title is vested in: Charmaine Nottelmann
Title received from: William B. Nottlemann

 Date Executed:
 8-15-1974

 Date Recorded
 8-25-1974

 Book:
 6748

 Page:
 1880

Instrument #:
Comments:

Type of Deed: Deed

Title is vested in: General American Life Insurance Co.

Title received from: George C. Priiffner and William B. Nottelmann

 Date Executed:
 8-15-1974

 Date Recorded
 8-25-1974

 Book:
 6748

 Page:
 1879

Instrument #:
Comments:

Type of Deed: General Warranty Deed

Title is vested in: General American Life Insurance Co.

Title received from: Concord Homes Inc.

 Date Executed:
 8-15-1974

 Date Recorded
 8-25-1974

 Book:
 6748

 Page:
 1875

Instrument #: Comments:

Type of Deed: Deed

Title is vested in: Concord Homes Inc.

Title received from:

Date Executed:

Date Recorded

Book:

Page:

O. Kerdell

6-26-1966

7-11-1966

5520

23

Instrument #: Comments:

Type of Deed: Deed

Title is vested in: George C. Priiffner and William B. Nottelmann

Title received from:

O. Kerdell

Date Executed:

1-12-1965

Date Recorded

1-22-1965

Book:

5114

Page:

100

Instrument #:
Comments:

Type of Deed: Deed
Title is vested in: O. Kerdell

Title received from: Alvina E. Bender, a widow

 Date Executed:
 8-28-1951

 Date Recorded
 9-21-1951

 Book:
 1941

 Page:
 298

Instrument #:

Comments: searched back to 1940 and found no other deeds.

DEED EXHIBIT

OUIT-CLAIM DEED

THIS DEED, made as of the 1372 day of Aukris 1, 1993, between TESSON FERRY MARKET CORP., a Delaware corporation, as First Party, and GENERAL AMERICAN LIFE INSURANCE COMPANY, a Missouri corporation, whose mailing address is National Headquarters, 700 Market Street, St. Louis, MO 63101, as Second Party.

MITNESSETH: that First Party, for and in consideration of the sum of Ten Dollars (\$10.00) and other valuable consideration, the receipt of which is hereby acknowledged, does hereby ACMISE, RELEASE AND FOREVER QUIT-CLAIM unto Second Party, its successors and assigns forever, the following described real estate situated in the CREY of St. Louis and State of Missouri, to-wit:

SEE ATTACHED FOR COUNTY LEGAL DESCRIPTION.

TO HAVE AND TO HOLD the same, together with all rights and appurtenances to the same belonging, unto Second Party, and to its successors and assigns forever; so that neither First Party, nor its successors, nor any other person or persons for it or in its name or behalf, shall or will hereafter claim or demand any right or title to the aforesaid premises, or any part thereof, but they and every one of them shall, by these presents, be excluded and forever barred.

FIRST PARTY AND SECOND PARTY, by and through the delivery and acceptance of this Deed, manifest and evidence, and hereby announce and declare, their joint and mutual intent to the effect that a certain Lease and Agreement, between First Party as Lessor and Second Party as Lessee, dated as of September 8, 1986, demising premises that include the herein conveyed property, and recorded in Book 7978 at Page 2408 in the office of the Recorder of Deeds of the County of St. Louis, Hissouri, shall, through and upon the delivery and acceptance of this Deed, entirely merge, extinguish, terminate and cease effect, and that no rights, duties, or obligations of any nature shall hereafter exist thereunder or with respect thereto.

IN WITNESS WHEREOF, First Party, and Second Party, both have caused these presents to be duly executed on their respective behalves as of the day and year first above written.

TESSON FERRY MARKET CORP.

	By:	h Mymce	ĩ
	(Title: PRE	SIDENT	Ì
STATE OF <u>DETAMARE</u>)			
COUNTY OF NEW CASING			
On this <u>larn</u> day o undersigned Notary Public, pers	onally appeared	, 1993, before me, t	ı
personally known by me and know	n to me to be the _	PRESIDENT	0
Tesson Ferry Market Corp., a Doath thatna_ executed the w	ithin instrument in	, and who acknowledged und such capacity as the free a	ıc
and dead of the said corporation	anila	A. Oleving	
	Notary Publi	c 1/2 ; - ;	٣.
My commission expires: 9/22/93		• • • • • • • • • • • • • • • • • • • •	

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10. January 10.

1251687-0

DESCRIPTION FOR GENERAL AMERICAN LIFE INSURANCE COMPANY

99.3976 ACRE TRACT

ST. LOUIS COUNTY, MISSOURI

A tract of land being part of Lots 6 and 7, of the "SUBDIVISION OF AUGUSTE CHOUTEAU ESTATE", in United States Survey 2992, Township 43 North, Range 6 East, St. Louis County, Missouri; said tract being more particularly described as follows:

BEGINNING at the point of intersection of the southeastern line of Keller Road, as widened in a deed to St. Louis County, Missouri, recorded in Book 6782, Page 314, and Book 6829, Page 879, St. Louis County Recorder's Office. with the southwestern line of property described in a deed to the General American Life Insurance Company recorded in Book 6748, Page 838, St. Louis County Recorder's Office; thence North 43 degrees 30 minutes East 2,257.32 feet along the southeastern line of said Keller Road, to the northeastern line of said Lot 7; thence South 46 degrees 20 minutes East 1,309.51 feet along the northeastern line of said Lot 7, to the northern line of property described in deed to the General American Life Insurance Company, recorded in Book 72:2, Page 2381, St. Louis County Recorder's Office; thence South 83 degrees 13 1/2 minutes East 311.56 feet along the northern line of said General American Life Insurance Company property, to the western line of Tesson Ferry Road -Missouri State Highway 21, Irregular Width; thence in a generally southwardly direction, along the western line of said Tesson Ferry Road, the following courses and distances: South 06 degrees 46 1/2 minutes West 202.36 feet; South 11 degrees 46 1/4 minutes West 40.77 feet; South 46 degrees 10 1/2 minutes West 122.92 feet; South 10 degrees 10 7/4 minutes West 60.91 feet; South 24 degrees 51 1/4 minutes East 106.81 feet; South 13 degrees 58 1/4 minutes West 77.83 feet; South 17 degrees 33 1/4 minutes West 262.81 feet; South 03 degrees 23 3/4 minutes West 132.38 feet; South 14 degrees 17 minutes West 130.40 feet; South 75 degrees 43 minutes East 15.00 feet and South 14 degrees 17 minutes West 51.49 feet, to the southwestern line of property described in deed to Wilar Development Company, recorded in Book 5705, Page 532, St. Louis County Recorder's Office; thence North 60 degrees 00 minutes West 429.37 feet along the southwestern line of said Wilar Development Company

property, to an angle point therein; thence South 43 degrees 31 minutes West 595.35 feet along the southeastern line of said Wilar Development Company property, to its most southern corner, in the northeastern line of property described in a deed to Fischer & Frichtel Development Corporation, recorded in Book 6386, Page 2085, St. Louis County Recorder's Office; thence South 55 degrees 50 minutes East 550.01 feet along the northeastern line of said Fischer & Frichtel Development Corporation property, to its most eastern corner in the centerline of Brittinger Road (Private), 20 feet wide; thence South 43 degrees 51 minutes West 330.14 feet along the centerline of said Brittinger Road, to the southwestern line of said General American Life Insurance Company property, recorded in Book 6748, Page 838, St. Louis County Recorder's Office; thence North 77 degrees 04 minutes West 1,055.21 feet and North 46 degrees 30 minutes West 1,383.62 feet along the southwestern line of said General American Life Insurance Company property, to the eastern line of said Keller Road, and the point of beginning and containing 99.3976 Acres.



DANIEL T. O'LEARY RECORDER OF DEEDS ST. LOUIS COUNTY MISSOURI 41 SOUTH CENTRAL • CLAYTON, MO 63105



RECORDER OF DEEDS DOCUMENT IDENTIFICATION & CERTIFICATION SHEET

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93 SEP -9 PH 2: 58

ST. LOUIS COUNTY, MG.

STATE OF MISSOURI)

SS.

COUNTY OF ST. LOUIS)

I, the undersigned Recorder of Deeds for said county and State, do hereby certify that the foregoing and annexed instrument of writing was filed for record in my office at the time and on the day, month and year, all as same appears bereon, and is truly recorded in the book and at the pages indicated on said instrument.

In witness whereof I have hereunto set my hand and official seal on the same day, month and year stamped and shown above.

Recorder of Deeds
St. Louis County, Missouri

By Deputy Recorder

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THE COURT OF		
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ELS

STATE USER \$ 4.00

A 2

FAHF FUND \$ 3.00

2 Desimation Code

000000 827-92

Notation

Y TOTAL

21

General Warranty

(Corporation)

#BECO State User Fee

This Deed, Made and entered into this with September nineteen hundred and eighty-six

day of by and between

GENERAL AMERICAN LIFE INSURANCE COMPANY having its principal office at 700 Market Street, City of St. s corporation, organized and existing under the laws of the State of Louis, Missouri party of the first part, and

> TESSON FERRY MARKET CORP., a Delaware corporation

in the

State of Delaware

party

of the second part.

Witnesselh, that the said party of the first part, for and in consideration of the sum ten dollars and other valuable consideration of the second part, the receipt of which is hereby acknowledged, does by paid by the said party these presents Grant, Bargain and Sell, Convey and Confirm unto the said party of the second part.

the following described Real Estate, situated in the

State of Missouri to-wit:

To Have and to Hold the same, together with all rights and appurtenances to the same belonging, unto the said party - of the second part, and to its.

kolxaxxxxi assigna

The said party of the first part hereby covenanting that it and its successors, shall and will Warrant and Defend the title to the premises unto the said party of the second part, and to

its heirs and assigns but none other against the lawful claims of all persons/whithsockers party of the first part, excepting however, the general taxes for the calendar year 19⁸⁶ and thereafter, and the special taxes becoming a lien after the date of this deed.

> and party of the second part have

In Witness Whereof, the said party of the first part/wax caused these presents to be signed by its Vice President and its corporate seal, attested by its Asst. Secretary,

to be hereunto affixed. Property tax bills should be sent to: Investment Accounting Department General American Life

ີ່ Box 418, St. Louis, Missouri 63166

Leonard M. Rubenstein Vice President.

TESSON FERRY MARKET CORP. Party of the Second Par

Secretary.

Secretary

Presto til

State of Misseuri Sec. On this 10th day of September City of St. Louis 8 New York

before me appeared / Leonard M. Rubenstein

to me personally known, who, being by me duly sworn, did say that he is the

Vice President

GENERAL AMERICAN LIFE INSURANCE COMPANY

a Corporation of the State of Missouri , and that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation, by authority of its Board of Directors; and said Vice President acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal in the City and State aforesaid, the day and year first above written.

My term expires:

STATE OF NEW YORK

ADVANCEMENT SMALLER LOTARY PURIS, State of Box York P.C. 41-3710-337 Califord by Roading County Califord by Roading County Califord by Roading County County of County

Notary Public.

On this 10 H day of September, 1986, before me appeared C.D. Danlop to me personally known, who, being by me duly sworn, did say that he is the Vico President of TESSON FERRY MARKET CORP., a Delaware corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was signed in behalf of said corporation, by authority of its Board of Directors; and said Vice President acknowledged said instrument to be the free act and

deed of said corporation.
IN TESTIMONY WHEREOF, I have hereunlo set me hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

mayart Emily Notary Publi

ly term expires:

MARGARET SMILEY BOTARY FUBLIC, State-of New York No. 43-2712457 Qualified to Quees County Conflicts field in New York County Conflicts States Harth 30, 1887

TO.

DESCRIPTION FOR GENERAL AMERICAN LIFE INSURANCÉ COMPANY

99.3976 ACRE TRACT

ST. LOUIS COUNTY, MISSOURI

A tract of land being part of Lets 6 and 7, of the "SUBDIVISION OF AUGUSTE CHOUTEAU ESTATE", in United States Survey 2992, Township 43 North, Range 6 East, St. Louis County, Missouri; said tract being more particularly described as follows:

BEGINNING at the point of intersection of the southeastern line of Keller Road, as widened in a deed to St. Louis County, Missouri, recorded in Book 6782, Page 314, and Book 6829, Page 879, St. Louis County Recorder's Office, with the southwestern line of property described in a deed to the General American Life Insurance Company recorded in Book 6748, Page 838, St. Louis County Recorder's Office; thence North 43 degrees 30 minutes East 2,257.32 feet along the southeastern line of said Keller Road, to the northeastern line of said Lot 7; thence South 46 degrees 20 minutes East 1,309.51 feet along the northeastern line of said Lot 7, to the northern line of property described in deed to the General American Life Insurance Company, recorded in Book 7212, Page 2381, St. Louis County Recorder's Office; thence South 83 degrees 13 1/2minutes East 311.56 feet along the northern line of said General American Life Insurance Company property, to the western line of Tesson Ferry Road -Missouri State Highway 21, Irregular Width; thence in a generally southwardly direction, along the western line of said lesson Ferry Road, the following courses and distances: South 06 degrees 46 1/2 minutes West 202.36 feet; South 11 degrees 46 1/4 minutes West 40.77 feet; South 46 degrees 10 1/2 minutes West 122.92 feet; South 10 degrees 10 1/4 minutes West 60.91 feet; South 24 degrees 51 1/4 minutes East 106.81 feet; South 13 degrees 58 T/4 minutes West 77.83 feet; South 17 degrees 33 1/4 minutes West 262.81 feet; South 03 degrees 23 3/4 minutes West 132.38 feet; South 14 degrees 17 minutes West 130.40 feet; South 75 degrees 43 minutes East 15.00 feet and South 14 degrees 17 minutes West 51.49 feet, to the scuthwestern line of property described in deed to Wilar Development Company, recorded in Book 5706, Page 532. St. Louis County Recorder's Office; thence North 60 degrees 00 minutes West 429.37 feet along the southwestern line of said Wilar Development Company

property, to an angle point therein; thence South 43 degrees 31 minutes West 595.35 feet along the southwestern line of said Wilar Development Company property, to its most southern corner, in the northeastern line of property described in a deed to Fischer & Frichtel Development Corporation, recorded in Book 6386, Page 2086, St. Louis County Recorder's Office; thence South 55 degrees 50 minutes East 550.01 feet along the northeastern line of said Fischer & Frichtel Development Corporation property, to its most eastern corner in the centerline of Brittinger Road (Private), 20 feet wide; thence South 43 degrees 51 minutes West 330.14 feet along the centerline of said Brittinger Road, to the southwestern line of said General American Life Insurance Company property, recorded in Book 6748, Page 838, St. Louis County Recorder's Office; thence North 77 degrees 04 minutes West 1,055.21 feet and North 46 degrees 30 minutes West 1,383.62 feet along the southwestern line of said General American Life Insurance Company property, to the eastern line of said Keller Road, and the point of beginning and containing 99.3976 Acres.

General Warranty Deed

- (Corporation)				
This Deed, Made and entered into this 124 day of				
nineteen hundred and ninety-one , by and between				
TESSON PERRY MARKET CORP., a Delaware comporation				
a lorporation, organized and existing under the laws of the State of Delaware with its principal office in the City of Wilmington State of Delaware party of the first part, and				
GENERAL AMERICAN LIFE INSURANCE COMPANY, a Missouri corporation, whose address is 700 Market Street, St. Louis, Missouri 63/07				
of the City of St. Louis State of Missouri part y of the second part.				
Witnesself, that the said party of the first part, for and in consideration of the sum				
of ten dollars and other valuable consideration paid by the said party of the second part, the receipt of which is hereby acknowledged, does by these presents Grant, Bargain and Sell, Convey and Confirm unto the said part y of the second part, its successors and assigns forever the following described Real Estate, situated in the County of St. Louis , and				
State of Missouri to-wit:				
SEE AUTACHED EXHIBIT "A" FOR LEGAL DESCRIPTION.				
SER ATTACHED EXHIBIT "B" FOR MATTERS SURJECT TO WHICH SAID REAL ESTATE IS BEING CONNEVED.				
There shall be no merger of (a) the leasehold estate created by the Lease and Agreement, dated as of September 8, 1986, between Tesson Ferry Market Corp., as lessor, and General American Life Insurance Company, as lessee, with (b) the fee estate in the Real Estate herein described, by reason of this Deed or by reason of the fact that the same person or entity may own or hold such leasehold estate or any interest there and such fee estate or any interest therein.				
84				
To Have and to Hold the same, together with all rights and appurtenances to the same belonging, unto the said party of the second part, and to its successors				
sheirs and assigns The said party of the first part hereby covenanting that it and its successors, shall and will Warrant and Defend the title to the premises unto the said party of the second part, and to				
its successors hours and assigns but none other forever				
against the lawful claims of all persons whomest represent the first part, excepting and thereafter, and the special taxes becoming a lien after the date of this deed, and also excepting those matters described upon Eshibit "B" herefo.				
In Witness Whereof, the said party of the first part has caused these presents to be signed by its President and its corporate seal, attested by its Secretary,				
presents to be signed by its President and its corporate seal, attested by its Secretary, to be highly affixed.				
TESSON FERRY MARKET CORP.				
By Arghi Dahu President				
Secretary - OSEPH A Barberg				
Bnir 8934 935 1036				

800/8934°45:1037

EXHIBIT "A"

A parcel of ground being part of Lot 7, of the "SUBDIVISION OF AUGUSTE CHOUTEAU ESTATE", in the United States Survey 2992, Township 43 North, Range 6 East, St. Louis County, Missouri; said parcel being more particularly described COMMENCING at the point of intersection of the southeastern line of Keller Road, 55 feet wide, with the northeastern line of property described in deed to Tesson Ferry-Market Corporation, recorded in 800k 7978, Page 2322, St. Louis County Recorder's Office; thence South 43 degrees 30 minutes West 714.49 feet along the southeastern line of said Keller Road; thence South 46 degrees 30 minutes East 487.42 feet, to the point of BEGINNING of the parcel herein described; thence South 46 degrees 24 minutes East 215.00 feet, to the northwestern face of the northwestern wall of a two story concrete building known as "Module A", thence in a generally southwestwardly direction along the northwestern face of the northwestern wall of said Module A, and along the northwestern face of the northwestern wall of the two story concrete buildings known as Module B and E, the following courses and distances: South 43 degrees 36 minutes West 19.92 feet, North 46 degrees 24 minutes West 4.50 feet, South 43 degrees 36 minutes West 0.75 feet, North 46 degrees 24 minutes West 39.00 feet, South 43 degrees 36 minutes West 180.58 feet, South 46 degrees 24 minutes East 31.84 feet, South 43 degrees 36 minutes West 4.70 feet, North 46 degrees 24 minutes West 3.94 feet, South 43 degrees 36 minutes West 15.88 feet, North 46 degrees 24 minutes West 25.45 feet, North 43 degrees 36 minutes East 2.83 feet and North 46 degrees 24 minutes West 18.06 feet to the northern corner of said Module E; thence South 43 degrees 36 minutes West 0.50 feet along the the northwestern wall of said Module E; thence

Bitter 8934 PASE 1038

EXHIBIT "A" (Continued)

North 46 degrees 24 minutes West 102.39 feet; thence South 43 degrees 36 minutes West 4.17 feet; thence North 46 degrees 24 minutes West 64.00 feet; thence North 43 degrees 36 minutes East 17.67 feet; thence North 46 degrees 24 minutes West 33.00 feet; thence North 43 degrees 36 minutes East 190.00 feet; thence South 46 degrees 24 minutes East 43.50 feet; thence North 43 degrees 36 minutes East 16.00 feet, to the point of beginning and containing 47,790 Square Feet, according to calculations by Pitzman's Co. of Surveyors & Engineers.

NSCExhibitA

BAUK 8934 PAGE 1039

EXHIBIT "B" (To Seneral Warranty Deed from Tesson Ferry Market Corp. to General American Life Insurance Company)

The said Real Estate is being hereby conveyed subject to all matters of record pertaining to the same and recorded in the Office of the Recorder of Deeds of St. Louis County, Missouri, specifically including the following described matters, to-wit:

- 1 Deed of Trust and Security Agreement dated September 8, 1986 and recorded in Book 7978 at Page 2326, as modified by Modification of Deed of Trust and Security Agreement dated November 5, 1986 and recorded in Book 8018 at Page 1289.
- 2 Lease dated September 8, 1986 from Tesson Ferry Market Corp. as Lessor and General American Life Insurance Company as Lessee, recorded in Book 7978 at Page 2408.
- 3 Assignment of Lease dated September 8, 1986 and recorded in Book 7978 at Page 2463.
- 4 Easement to Union Electric Light and Power Company according to instrument recorded in Book 959 Page 397.
- 5 Relinquishment of direct access to State Highway FF (21) according to instruments recorded in Book 5935, Page 632 and Book 6041, Page 194.
- $\mathbf{6}$ Easement to Fee Fee Truck Sewer, Inc. according to instrument recorded in Book 6798, Page 281.
- 7 Agreement with Fee Fee Trunk Sewer, Inc., as to treatment and disposal of sanitary sewage, together with provisions for maintenance assessments thereunder according to instrument recorded in Book 6798, Page 2405.
- 8 Easements to Union Electric Company according to instruments recorded in Book 6813, Page 17, Book 6813, Page 21 and Book 7533, Page 1555.
- 9 Limitations of abutter's rights of direct access to Route FF (21) according to instrument recorded in Book 6828, Page 1389.
- 10- Traffic Signal Contract by and between the Missouri Highway and Transportation Commission and General American Life Insurance Company, a Missouri Corporation, according to instrument recorded in Book 7301, Page 1702
- 11- Easements to St. Louis County Water Company according to instrument recorded in Book 7449, Page 2364 and Book 7752, Page 1570.

12- Restrictions as to direct access to State Highway No. 21, created by Condemnation Suit No. 275828 in the Circuit Court of St. Louis County and Report of Commissioners recorded in Book 6077, Page 386.

 \cdot 13- Easements to St. Louis County Water Company according to instrument recorded in Book 7752, Page 1573.

13- Terms and provisions of Development Plans recorded in Plat Book 165, Page 1, Plat Book 205, Page 3; Plat Book 221, Page 57 and Plat Book 238, Page 42, together with Ordinances as recited in instruments recorded in Book 6842, Page 2024, Book 6842, Page 2031, Book 6842, Page 2033, Book 7316, Page 350 and Book 7319, Page 1185.

NSCEXB

RECORDER OF DEEDS • ST. LOUIS COUNTY MISSOURI

TO REMOVE FLAP THAR ALONG PERFORATED LINE +



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DANIEL T. O'LEARY RECORDER OF DEEDS ST. LOUIS COUNTY MISSOURI 41 SOUTH CENTRAL • CLAYTON, MO 63105

B.J. McMahon, Jr. Director of Revenue

RECORDER OF DEEDS DOCUMENT IDENTIFICATION & CERTIFICATION SHEET

SHOWN ON THE IS PAGE OF DOCUMENT NO. INSTRUMENT, AND ALSO AT THE POOT OF THIS PAGE.

91 FEB 21 PH 2: 44

STATE OF MISSOURI)

TOUR COUNTY, NO.

COUNTY OF ST. LOUIS)

I, the undersigned Recorder of Decus for said county and State, do hereby certify that the foregoing and annexed instrument of writing was filed for record in my office at the time and on the day, month and year, all as same appears hereon, and is truly recorded in the book and at the pages indicated on said instrument.

In witness whereof I have hereunto set my hand and official seal on the same day, month and year stamped and shown above.

Recorder of Deeds St. Louis County, Missouri

Oputy Recorder

8934 × 1042

1 37 600 3	O STATE OF THE OWNER, O
 N.P.	
 N. P. C.	
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END OF DOCUMENT Do Not Remove This Page RECORDING FEES

POSTAGE \$

RECORDER OF DUENS
ST. LOUIS COUNTY

DOCUMENT \$

000384 FED 21

STATE USER \$ 4.00 FAHF FUND \$ 3.00

TOTAL

Destination Code

County Fee Sala User Fee

10151

(INDIVIDUAL) This Deed, Made and entered into this 16th day of November

, by and between

WILLIAM I. NEELY and JANET K. NEELY, his wife

GENERAL WARRANTY DEED

County of St. Louis

State of Missouri

party or parties of the first part, and

GENERAL AMERICAN LIFE INSURANCE COMPANY, A Missouri Corporation Law Division: Post Office Box 396, St. Louis, Missouri 63166 State of Missouri

County of St. Louis

party or parties of the second part.

WITNESSETH, that the said party or parties of the first part, for and in consideration of the sum of One Dollar and other valuable considerations paid by the said party or parties of the second part, the receipt of which is hereby acknowledged, does or do by these presents GRANT, BARGAIN AND SELL, CONVEY AND CONFIRM unto the said party or parties of the second part, the following described Real Estate, simuted in the County of St. Louis and State of Missouri, to-wit:

Part of Lot 6 of the Subdivision of U. S. Survey 2992, Township 43 North, Tange 6 East, beginning at the intersection of the line dividing said Lot 6 and Lot 7 of said Subdivision with the West line of Tesson Ferry Road, 60 feet wide; thence along the line dividingsaid Lots 6 and 7, North 46 degrees 22 minutes West, 425.78 feet to an iron rod; thence South 83 degrees 13 minutes East 341.28 feet to an iron rod; in the West line of Tesson Ferry Road; thence along said road line South 6 degrees 47 minutes West, 202.24 feet and along a curve to the right having a radius of 2834.93 feet, a distance of 53.17 feet to the beginning, EXCEPTING THEREFROM that part thereof taken in Condemnation Suit No. 275826, for State Highway (21), a certified copy of the Report of Commissioners to said Suit is recorded in Book 6077 page 386 of the St. Louis County Recorder's Office.

Subject to building lines, conditions, restrictions and easements of the office of any processing the conditions of the conditions and processing the conditions are conditions and easements of the conditions are conditions.

538

1979 NOV 16 PH 4: 26

Itim & Fauke TO HAVE AND TO HOLD the same, together with all rights and appurtenances to the same belonging unto the said party or parties of the second part, and to the heirs and assigns of such party or parties forever.

The said party or parties of the first part hereby covenanting that said party or parties and the heirs, executors and administrators of such party or parties, shall and will WARRANT AND DEFEND the title to the premises unto the said party or parties of the second part, and to the heirs and assigns of such party or parties forever, against the lawful claims of all persons whomsoever, excepting, however, the general taxes for the calendar year 19 79 and thereafter, and special taxes becoming a lien after the date of this deed.

IN WITNESS WHEREOF, the said party or parties of the first part has or have hereunto set their hand or hands the day and year first above written.

STATE OF MISSOURI

ss. On this 16th day of November

, 1979 , before me personally appeared

County of St. Louis William I. Neely and Janet K. Neely, his wife

to me known to be the person or persons described in and who executed the foregoing instrument, and acknowledged that They executed the same as Their free act and deed.

IN TEXTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

PUDLIC My term expire

MOTARY PUBLIC - STATE OF MISSOURI

MY COMMISSION EXPIRES JULY 26, 1981

END OF DOCUMENT

BOUK 7212 PAGE 2381

Jayla K. Stanley

Metlife - NGA 13045 Tesson Ferry Road Saint Louis, MO 63128

Inquiry Number: 4085433.2s

September 26, 2014

The EDR Radius Map™ Report with GeoCheck®

Prepared using the EDR FieldCheck® System

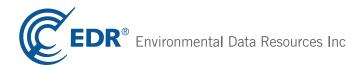


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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of the environmental records was conducted by Environmental Data Resources, Inc. (EDR). CH2M HILL, INC. used the EDR FieldCheck System to review and/or revise the results of this search, based on independent data verification by CH2M HILL, INC.. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

13045 TESSON FERRY ROAD SAINT LOUIS, MO 63128

COORDINATES

Latitude (North): 38.4925000 - 38° 29' 33.00" Longitude (West): 90.3861000 - 90° 23' 9.96"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 727973.9 UTM Y (Meters): 4263492.5

Elevation: 560 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38090-D4 MAXVILLE, MO

Most Recent Revision: 1982

North Map: 38090-E4 KIRKWOOD, MO

Most Recent Revision: 1993

Northeast Map: 38090-E3 WEBSTER GROVES, MO IL

Most Recent Revision: 1998

East Map: 38090-D3 OAKVILLE, MO IL

Most Recent Revision: 1998

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120622 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No sites were identified in following databases.

SWF/LF..... Permitted Facility List

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
Proposed NPLNPL LIENS	Proposed National Priority List Sites Federal Superfund Liens
Federal Delisted NPL site I	ist
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY	Federal Facility Site Information listing
Federal CERCLIS NFRAP s	ite List
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
Federal RCRA CORRACTS	facilities list
CORRACTS	Corrective Action Report
Federal RCRA non-CORRA	CTS TSD facilities list
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
Federal RCRA generators I	ist
•	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
Federal institutional contro	ols / engineering controls registries
US ENG CONTROLS	Engineering Controls Sites List
	Sites with Institutional Controls Land Use Control Information System
L0010	Land Use Control Information System
Federal ERNS list	
ERNS	Emergency Response Notification System
State- and tribal - equivaler	nt CERCLIS
SHWS	Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites
State and tribal landfill and	/or solid waste disposal site lists
	•

State and	tribal	leaking	storage	tank lists
-----------	--------	---------	---------	------------

LAST.....Leaking Aboveground Storage Tanks INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST...... Underground Storage Tanks on Indian Land FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL..... Sites with Controls

State and tribal voluntary cleanup sites

VCP......Voluntary Cleanup Program Site Listing INDIAN VCP......Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations ODI...... Open Dump Inventory SWRCY..... Solid Waste Recycling Facilities

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

DEL SHWS...... Registry Sites Withdrawn or Deleted

CDL Environmental Emergency Response System US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System SPILLS 90 SPILLS 90 data from FirstSearch

Other Ascertainable Records

CONSENT..... Superfund (CERCLA) Consent Decrees

UMTRA..... Uranium Mill Tailings Sites US MINES..... Mines Master Index File

TRIS...... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS______FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

FINDS.......Facility Index System/Facility Registry System
RAATS......RCRA Administrative Action Tracking System

RMP..... Risk Management Plans

UIC......Underground Injection Wells Database

MO RRC..... Certified Hazardous Waste Resource Recovery Facilities

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

2020 COR ACTION....... 2020 Corrective Action Program List

LEAD SMELTERS..... Lead Smelter Sites

MINES...... Industrial Mineral Mines Database SMARS..... Site Management and Reporting System

PRP Potentially Responsible Parties

US AIRS...... Aerometric Information Retrieval System Facility Subsystem COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List

COAL ASH DOE Steam-Electric Plant Operation Data
Financial Assurance Information Listing
US FIN ASSUR Financial Assurance Information

PCB TRANSFORMER_____ PCB Transformer Registration Database

EPA WATCH LIST EPA WATCH LIST COAL ASH..... Coal Ash Disposal Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS...... Recovered Government Archive State Hazardous Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

An online review and analysis by CH2M HILL, INC. of the NPL list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTHWEST JEFFERSON COUNTY MIN	SLVR LK TRL & THNDR RDG	WSW 1/2 - 1 (0.780 mi.)	0	7

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks.

An online review and analysis by CH2M HILL, INC. of the LUST list, as provided by EDR, and dated 06/03/2014 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELL STATION Date Of NFA Letter From DNR: 2002-	13090 TESSON FERRY RD 03-22 00:00:00	ESE 0 - 1/8 (0.021 mi.)	A6	32
MPI 20 Date Of NFA Letter From DNR: 1994-	13117 TESSON FERRY RD 11-21 00:00:00	SE 0 - 1/8 (0.045 mi.)	C 9	42

State and tribal registered storage tank lists

UST: Underground Storage Tank Information.

An online review and analysis by CH2M HILL, INC. of the UST list, as provided by EDR, and dated 06/03/2014 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL AMERICAN LIFE INS CO	13045 TESSON FERRY RD	ESE 0 - 1/8 (0.014 mi.)	A1	27
SHELL STATION	13090 TESSON FERRY RD	ESE 0 - 1/8 (0.021 mi.)	A6	32
MPI 20	13117 TESSON FERRY RD	SE 0 - 1/8 (0.045 mi.)	C9	42
QUIKTRIP #678	13099 TESSON FERRY RD	SE 0 - 1/8 (0.057 mi.)	B12	52
PETRO MART #21	13010 TESSON FERRY RD	ENE 0 - 1/8 (0.058 mi.)	D15	58

AST: Aboveground Petroleum Storage.

An online review and analysis by CH2M HILL, INC. of the AST list, as provided by EDR, and dated 08/26/2014 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUIKTRIP	13099 TESSON FERRY	SE 0 - 1/8 (0.057 mi.)	B11	51
PETRO MART #21	13010 TESSON FERRY RD	ENE 0 - 1/8 (0.058 mi.)	D14	58

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

An online review and analysis by CH2M HILL, INC. of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/10/2014 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
METROPOLITAN LIFE INSURANCE CO	13045 TESSON FERRY RD	ESE 0 - 1/8 (0.014 mi.)	A2	29
SENETEK	13131 TESSON FERRY RD	SE 0 - 1/8 (0.057 mi.)	C13	57
VICKERS	13177 TESSON FERRY RD	SSE 0 - 1/8 (0.115 mi.)	E22	65
AUTOMOTIVE SVCS	4936 BUTLER HILL RD	ENE 1/8 - 1/4 (0.182 mi.)	26	68

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

An online review and analysis by CH2M HILL, INC. of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTHWEST JEFFERSON COUNTY MIN	SLVR LK TRL & THNDR RDG	WSW 1/2 - 1 (0.780 mi.)	0	7

DRYCLEANERS: A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

An online review and analysis by CH2M HILL, INC. of the DRYCLEANERS list, as provided by EDR, and dated 06/16/2014 has revealed that there are 3 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIAL CLEANERS	13078 TESSON FERRY RD	ESE 0 - 1/8 (0.016 mi.)	A4	31
CLEANERS 21	13142 TESSON FERRY RD	SE 0 - 1/8 (0.073 mi.)	C18	64
LAUNDRY 21 INC	13210 TESSON FERRY RD	SSE 1/8 - 1/4 (0.160 mi.)	F24	66

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

An online review and analysis by CH2M HILL, INC. of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 8 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	13090 TESSON FERRY RD	ESE 0 - 1/8 (0.021 mi.)	A5	31
BUTLER HILL SHELL	13090 TESSON FERRY RD	ESE 0 - 1/8 (0.024 mi.)	B7	42
Not reported	13117 TESSON FERRY RD	SE 0 - 1/8 (0.045 mi.)	C8	42
Not reported	13116 TESSON FERRY RD	SE 0 - 1/8 (0.048 mi.)	C10	50
Not reported	5050 GRIFFIN RD	ESE 0 - 1/8 (0.059 mi.)	A16	62
Not reported	5050 BUTLER HILL RD	NE 0 - 1/8 (0.074 mi.)	D19	64
VICKERS SERVICE STATION	13177 TESSON FERRY RD	SSE 0 - 1/8 (0.115 mi.)	E21	65
Not reported	13177 TESSON FERRY RD	SSE 0 - 1/8 (0.115 mi.)	E23	66

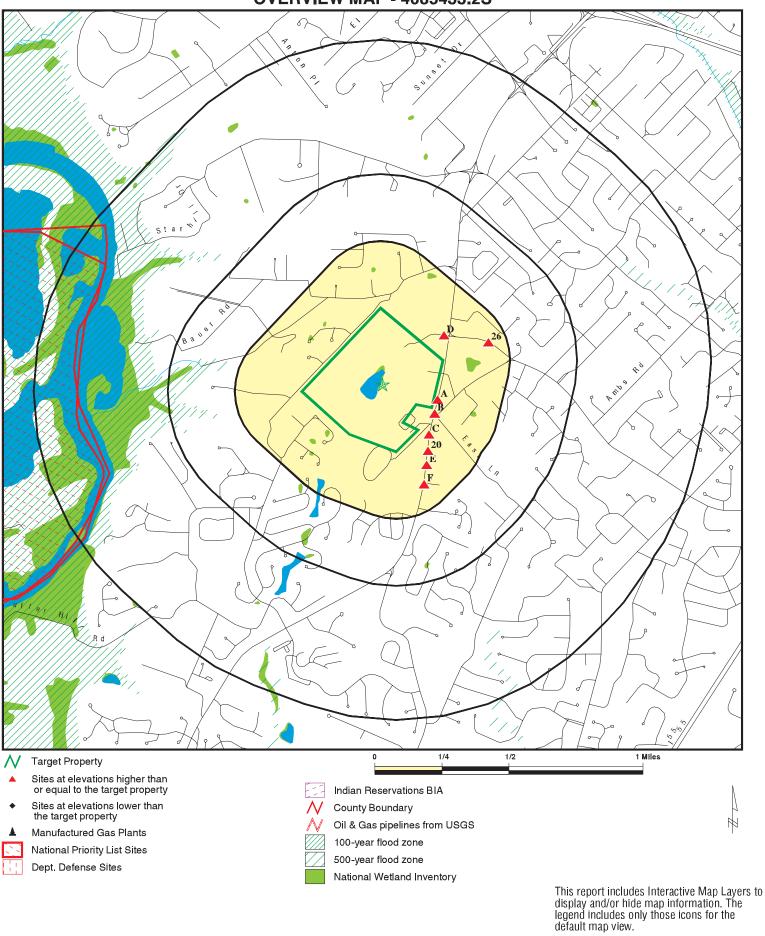
EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

An online review and analysis by CH2M HILL, INC. of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 4 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	13078 TESSON FERRY RD	ESE 0 - 1/8 (0.016 mi.)	A3	30
Not reported	13142 TESSON FERRY RD	SE 0 - 1/8 (0.073 mi.)	C17	63
Not reported	13148 TESSON FERRY RD	SE 0 - 1/8 (0.082 mi.)	20	64
Not reported	13210 TESSON FERRY RD	SSE 1/8 - 1/4 (0.160 mi.)	F25	67

There were no unmapped sites in this report.

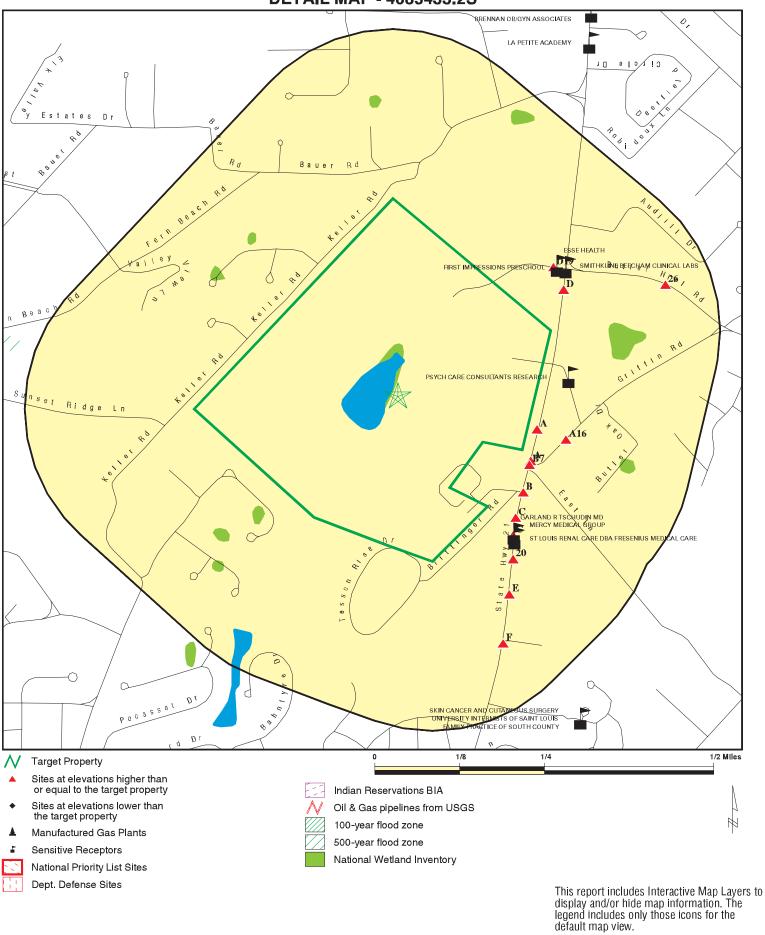
OVERVIEW MAP - 4085433.2S



CLIENT: CH2M Hill, Inc. CONTACT: Jesse A. Brown SITE NAME: Metlife - NGA ADDRESS: 13045 Tesson Ferry Road Saint Louis MO 63128 INQUIRY#: 4085433.2s LAT/LONG: 38.4925 / -90.3861

DATE: September 26, 2014 5:28 pm

DETAIL MAP - 4085433.2S



SITE NAME: Metlife - NGA
ADDRESS: 13045 Tesson Ferry Road
Saint Louis MO 63128
LAT/LONG: 38.4925 / -90.3861

CLIENT: CH2M Hill, Inc.
CONTACT: Jesse A. Brown
INQUIRY #: 4085433.2s
DATE: September 26, 2014 5:29 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	1 0 NR	NR NR NR	1 0 0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS US INST CONTROL LUCIS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST LAST INDIAN LUST	0.500 0.500 0.500		2 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	2 0 0
State and tribal registered storage tank lists								
UST	0.250		5	0	NR	NR	NR	5

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST INDIAN UST FEMA UST	0.250 0.250 0.250		2 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	2 0 0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9 ODI SWRCY HIST LF INDIAN ODI	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL DEL SHWS CDL US HIST CDL	TP 1.000 TP TP		NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS SPILLS SPILLS 90	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Other Ascertainable Records								
RCRA NonGen / NLR DOT OPS DOD FUDS CONSENT ROD	0.250 TP 1.000 1.000 1.000 1.000		3 NR 0 0 0	1 NR 0 0 0	NR NR 0 0 0	NR NR 0 0 1	NR NR NR NR NR NR	4 0 0 0 0 1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	Õ
UIC	TP		NR	NR	NR	NR	NR	Ö
DRYCLEANERS	0.250		2	1	NR	NR	NR	3
MO RRC	TP		NR	NR	NR	NR	NR	Ō
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
SMARS	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		8	ő	NR	NR	NR	8
EDR US Hist Cleaners	0.250		3	1	NR	NR	NR	4
EDR RECOVERED GOVERN	IMENT ARCHIV	VES						
Exclusive Recovered Go	ovt Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS Map ID

Direction Distance

4116 ft.

EDR ID Number Elevation Site Database(s) **EPA ID Number**

NPL SOUTHWEST JEFFERSON COUNTY MINING SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Region wsw **JEFFERSON COUNTY, MO 63023** 1/2-1

NPL **CERCLIS US ENG CONTROLS US INST CONTROL**

1009805672 MON000705443

NPL:

EPA ID: MON000705443

EPA Region: 07 Federal: Ν

Final Date: 2009-09-23 00:00:00

CERCLIS:

0705443 Site ID: MON000705443 EPA ID: Facility County: **JEFFERSON**

Short Name: SOUTHWEST JEFFERSON COUNT

Congressional District: 03 IFMS ID: A7D2 SMSA Number: Not reported USGC Hydro Unit: Not reported Federal Facility: Not a Federal Facility

DMNSN Number: 0.00000 Site Orphan Flag: Not reported RCRA ID: Not reported USGS Quadrangle: Not reported

Site Init By Prog:

NFRAP Flag: Not reported Parent ID: Not reported RST Code: Not reported

EPA Region: 07

Classification: Mines/Tailings Site Settings Code: Not reported

Currently on the Final NPL NPL Status:

Not reported DMNSN Unit Code: RBRAC Code: Not reported Not reported RResp Fed Agency Code: Non NPL Status: Not reported Non NPL Status Date: 29099 Site Fips Code: CC Concurrence Date:

CC Concurrence FY: Not reported Alias EPA ID: Not reported Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13003004.00000 PRESTON LAW Contact Name: Contact Tel: (913) 551-7097

Contact Title: Remedial Project Manager (RPM)

Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101

JEFFERSON COUNTY LEAD Alias Name: Alias Address: 13291 STATE RD CC

DESOTO, MO 63020

MAP FINDINGS Map ID Direction

Distance Elevation

EPA ID Number Site Database(s)

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Alias ID: 102

JEFFERSON COUNTY LEAD Alias Name:

Alias Address: Not reported

Not reported

Alias ID:

SOUTHWEST JEFFERSON COUNTY MINING Alias Name: Alias Address: SLVR LK TRL & THNDR RDG RD..5M W HWY WW

JEFFERSON COUNTY, MO 63023

Alias ID: 102

Alias Comments: Not reported

Site Description: Large area lead site on compassing Hillsboro, DeSoto, Valles Mines. The Site covers the entirety of Jefferson County, Missouri, excluding the Herculaneum site, and, as a mining site, includes any media impacted by heavy metals mainly related to historical mining and milling activities. Jefferson County is located approximately 30 miles south of St. Louis, in southeastern Missouri within the Old Lead Belt where heavy metal mining has occurred since the early 1700s and industrial mining has occurred since the 1800s. Mining activities began in the early 1800s in southern Jefferson County. The Site consists of residential properties and child high impact areas that have been impacted by past mining practices and the migration of the resulting mine waste. The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) identification number is MON000705443. The support agency is the Missouri Department of Natural Resources (MDNR). Historically, the Site's focus was on an area of approximately 166 square miles located in the southwest quarter of Jefferson County, but due to transportation of contaminated materials expanding beyond the historic Site boundary, the Site has been expanded county-wide to address this contamination. Jefferson County's estimated population, based on the 2010 Census, is 219,046, an increase of about 20,000 residents since the 2000 Census. Approximately 29,500 persons are under the age of nine. The county encompasses 664 square miles of which 657 square miles are land and 7 square miles are water. The population density, based on the estimated population of the county, is approximately 333 persons per square mile. There are an estimated 88,396 housing units (an average of 2.48 persons per housing unit). Areas within Jefferson County are categorized as rural and urban residential, rural and urban commercial or mining related. Due to the lack of industrial expansion in the area, it is not anticipated that the land uses in this area will change substantially in the future. However, it is apparent that Jefferson County is affected by the impacts of a metropolitan population shift to the suburbs. This is supported by the substantial growth in population, the dramatic increase in the number of households in the county and the high rate of owner-occupied houses. Three major watersheds occur in Jefferson County: the Cahokia-Joachim (United States Geological Survey [USGS] Hydrologic Unit 07141.01) located in the eastern half of the county, the Meramec (USGS Hydrologic Unit 07140102) situated in the far north and northwest portions of the county and the Big (USGS Hydrologic Unit 07130104), which encompasses the western portion of the county. Minor rivers and streams in the Cahokia-Joachim watershed drain approximately 48 percent of the county directly to the Mississippi River. Most of the larger cities in Jefferson County are located in the Cahokia-Joachim watershed including De Soto, Olympian Village, Hillsboro and the communities along the Mississippi River. The Meramec watershed drains approximately 15 percent of Jefferson County. No major towns or cities are within the Meramec watershed in Jefferson County. The Big watershed is dominated by the Big River, which drains about 37 percent of the county. The cities of Byrnes Mill, Fletcher, Dittmer and the Raintree community are located in the Big watershed. Soil and/or groundwater contamination by lead and other mining-related metals at the Site is most likely the result of long-term, heavy-metal mining at the Site. Mining

Map ID Direction Distance Elevation

Site

MAP FINDINGS

Databa

EDR ID Number Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

activities began in the early 1800s in southern Jefferson County where the Cambrian dolomite source rock is exposed along the Big River and other major streams. The first production operation was a lead shot tower erected in 1809 in the southern part of Herculaneum. Two mines were in operation as early as 1818: Gray's Mine was located on the Big River and McKane's Mine was located on Dry Creek. Many other mines were opened in the 1830s and 1840s for the production of lead, zinc and barium (tiff). By 1855, three smelters were operating in Jefferson County including Valles Mines, Mammoth Mines and Sandy Mines. Historical records indicate that over three million pounds of lead were shipped out of Jefferson County annually during this time period, making it one of the leading lead producers. Past tiff producers in Jefferson County included Dresser Minerals, General Barite Company, De Soto Mining Company and Scott & Whaley. Dresser Minerals was the largest producer of barium, and, according to local residents, moved its operations overseas in the 1970s. Historical records indicate the earliest tiff mines started operating in the 1830s and ceased around 1975. Chat deposits include mining waste rejected in the lead milling operations and consist of sand- to gravel-sized material resulting from the crushing, grinding and dry separation of the ore material that accompanied lead mining. Tailings deposits include sand- and silt-sized material resulting from the wet washing or flotation separation of the ore material. The mine waste, including chat and tailings, contains elevated levels of lead and other heavy metals which pose a tin-eat to human health and the environment. These mine wastes have contaminated soil, sediment, surface water and groundwater. Mine waste also has been transported by the Big River and manually relocated to other areas throughout Jefferson County. It has also been reported that mine waste has been used on residential properties for fill material, topsoil, private driveways and as aggregate for road construction. In March 2007, an EPA contractor, Tetra Tech, completed a Pre-CERCLIS Site Screening Assessment (SSA) of the Site. As part of the SSA, a reconnaissance was conducted at 252 potential mining sites in Jefferson County identified by the Inventory of Mines, Occurrences, and Prospects database. Of the nine source areas sampled, three contained concentrations of lead greater than 1,200 parts per million (ppm), with values ranging from 1,447 ppm to 7,070 ppm. Three other source areas contained concentrations of lead ranging from 442 ppm to 1,070 ppm. Five of the six source areas with elevated lead concentrations are located on residential properties. X-Ray Fluorescence Spectrometer (XRF) screening of the residential yard soil samples indicated a significant impact on environmental media from historical mining activities. Of the 125 residential and school yards sampled during the pre-CERCLIS SSA, nine of the samples contained concentrations of lead in the soils greater than 1,200 ppm, and 21 of the soil samples contained concentrations of lead greater than or equal to 400 ppm. Sampling data from the school property did not show elevated levels of metals associated with mining operations in the area. A total of 106 private drinking water wells were sampled as part of the pre-CERCLIS SSA. Analytical results indicated that 13 of the wells contained metals at significantly elevated concentrations. Twelve of the wells contained concentrations of lead greater than the Safe Drinking Water Act action level of 15 micrograms per liter (ug/l). Lead concentrations ranged from 15.7 ug/l to 71.8 ug/l. Cadmium was identified at a concentration of 5.7 ug/l in one well, which exceeds the Maximum Contaminant Level (MCL) of 5 ug/l. The EPA has conducted removal activities since November 2007 consisting of excavation and disposal for residential soils exceeding 1,200 ppm and child care facility soils exceeding 400 ppm. Treatment of soils was only conducted on waste failing the Toxicity Characteristic Leaching Procedure (TCLP) analysis for disposal. The Missouri Department of Natural Resources (MDNR) conducted an integrated Preliminary Assessment/Site Inspection/Removal Assessment (PA/SI/RA) at the Valles Mines Company site (MON000704446) in the extreme southern part of Jefferson County,

Map ID Direction Distance Elevation

Site

MAP FINDINGS

D

EDR ID Number
Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

Missouri, from January to May 2004. The analytical results indicated a release of mining-related contamination from the old smelter site to surface water and sediment, but limited sampling did not document a release to groundwater. In addition, according to the x-ray fluorescence (XRF) screening, two of the residential properties contained concentrations of lead exceeding the proposed remedial action level (RAL) of 400 ppm. This area is currently assigned a distinct operable unit (OU). In 2008, the EPA conducted a PA/SI which provided the following results: Arsenic and lead were identified in residential groundwater at concentrations that exceed health-based benchmarks, lead in residential soils and groundwater appears attributable to past mining activities and the source of the arsenic contamination is unidentified but is likely naturally occurring or from treated wood or pesticides. Data collected during previous sampling events indicate that residents could be exposed to contaminated soil and groundwater; therefore, additional investigations were recommended to further characterize and delineate the extent of contaminated soil and groundwater. Limited surface water and sediment sampling were conducted as part of this SI to characterize this migration pathway. Results obtained suggested a release to Big River, which contains wetland areas and is designated as a fishery by the State. Further characterization of this pathway was recommended to determine the extent of contamination and the source(s) of the elevated lead levels. The characterization of the surface water pathway will be completed under OU-4. In 2010, the EPA began a Remedial Investigation/Feasibility Study (RI/FS), characterizing the nature and extent of risk posed by the mining-related contamination and evaluating the potential remedy options. This RI incorporated investigation activities for OU-1, OU-2, OU-3 and OU-5. The EPA completed the RI in May 2012 and the FS in June 2012. The goal of the RI/FS was to gather information sufficient to support an informed risk-management decision regarding which remedy appears to be most appropriate for the Site. The Site was proposed for National Priorities List (NPL) listing on April 9, 2009, and was listed on the NPL on September 23, 2009. The Site has been divided into six OUs to organize the work into logical elements based on similar contaminated media or by potentially responsible parties (PRPs). The six OUs are described in detail as follows: OU-1 - All residential properties in Jefferson County with soil lead concentrations equal to or greater than 400 parts per million (ppm) that do not qualify under OU-2, OU-3, OU-6 or the Herculaneum Lead Smelter site. OU-2 - Consists of residential properties with soil lead concentrations equal to or greater than 400 ppm identified as having soil hauled to a property by Bob Luebbers Trucking and Grading. OU-3 - Consists of residential properties with soil lead concentrations equal to or greater than 400 ppm identified as having received soil sold by Stewart Farms. OU-4 - Unconsolidated Mine Waste in Jefferson County including the Big River, the Big River floodplain, rail lines and historic mine areas. OU-5 - Consists of residential properties with contaminated groundwater from mining-related activities. OU-6 - Consists of the Valle Mines area in southern Jefferson County and northern St. Francois County. This OU has distinct site boundaries and ownership, unlike most other historic mining sites in the county. Operable Unit 1: To date, the EPA has performed site-wide sampling of 2,070 residential properties for soil, with 1,611 being associated with OU-1. In OU-1, 162 properties exceeded 1,200 ppm, qualifying the property for a time-critical removal, and 409 properties have lead-soil concentrations between 400 ppm and 1,200 ppm. Time-Critical Removal Actions (TCRAs) have been completed at most properties; however, the removal action is ongoing and new properties may be identified prior to an RA taking place. Groundwater was sampled at the Site from 654 groundwater wells; 79 exceeded the action level of 15 ug/l at the wells, and 44 of those exceeded the lead action level at the primary drinking taps. Alternative water continues to be provided until the

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

groundwater OU-5 ROD is completed. The EPA has been providing bottled water to residents of properties where lead in groundwater exceeds the lead action level of 15 ug/l. A Record of Decision for OU 01 of the Southwest Jefferson County Mining Superfund Site was completed in September 2012. Operable Unit 2: To date, the EPA has performed site-wide sampling of 2,070 residential properties for soil, with 122 being associated with OU-2. Within OU-2, 82 properties exceeded 1,200 ppm, and qualified for a time-critical removal action (TCRA). Nine properties have lead soil concentrations between 400 ppm and 1,200 ppm. TCRAs have been completed at most properties, however, the removal action is ongoing and some properties may have removal actions conducted prior to a remedial action taking place. Groundwater at the Site was sampled from 654 groundwater wells; 79 exceeded the lead action level of 15 ug/l at the wells, and 44 of those exceeded the lead action level at the primary drinking taps. Alternative water continues to be provided until the groundwater OU-5 ROD is completed. The EPA has been providing bottled water to residents of properties where lead in groundwater exceeds the lead action level of 15 ug/l. A Record of Decision for OU 02 of the Southwest Jefferson County Mining Superfund Site OU-2 was completed in September 2012. Operable Unit 3: To date, the EPA has performed site-wide sampling of 2,070 residential properties for soil, with 337 being associated with OU-3. In OU-3, 120 properties exceeded 1,200 ppm, qualifying the property for a time-critical removal action (TCRA), and 56 properties have lead-soil concentrations between 400 ppm and 1,200 ppm. TCRAs have been completed at most properties, however, the removal action is ongoing and some properties may have removal actions conducted prior to a remedial action taking place. At the Site, groundwater was sampled from 654 groundwater wells; 79 exceeded the lead action level of 15 ug/l at the wells, and 44 of those exceeded the action level at the primary drinking taps. Alternative water continues to be provided until the groundwater OU-5 ROD is completed. The EPA has been providing bottled water to residents of properties where lead in groundwater exceeds the lead action level of 15 ug/l. A Record of Decision for the Southwest Jefferson County Mining Superfund Site OU-3 was completed in September 2012.

CERCLIS Assessment History:

Action Code: 001

Action: DISCOVERY

Date Started: / /

Date Completed: 07/15/06
Priority Level: Not reported
Operable Unit: SITEWIDE

Primary Responsibility: EPA Fund-Financed

Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

Date Started: 11/13/06 Date Completed: 09/28/07

Priority Level: Search Complete, No Viable PRPs

Operable Unit: SITEWIDE
Primary Responsibility: EPA In-House
Planning Status: Not reported
Urgency Indicator: Not reported

Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: PRE-CERCLIS SCREENING

Date Started: 08/02/06
Date Completed: 10/15/07
Priority Level: Not reported
Operable Unit: SITEWIDE

Primary Responsibility: EPA Fund-Financed Planning Status: Not reported

Urgency Indicator: Not reported Action Anomaly: Not reported Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: REMOVAL ASSESSMENT

Date Started: 11/13/06
Date Completed: 10/15/07
Priority Level: Not reported
Operable Unit: SITEWIDE

Primary Responsibility: EPA Fund-Financed Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002

Action: PRE-CERCLIS SCREENING

Date Started: / /

Date Completed: 10/15/07
Priority Level: Not reported
Operable Unit: SITEWIDE

Primary Responsibility: EPA Fund-Financed

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: PRELIMINARY ASSESSMENT

Date Started: 01/29/08 Date Completed: 05/13/08

Priority Level: Higher priority for further assessment

Operable Unit: SITEWIDE

Primary Responsibility: EPA Fund-Financed Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

Action Code: 001

SITE INSPECTION Action:

Date Started: 05/23/08 Date Completed: 01/15/09

Recommended for HRS Scoring Priority Level:

Operable Unit: **SITEWIDE**

Primary Responsibility: **EPA Fund-Financed** Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

HAZARD RANKING SYSTEM PACKAGE Action:

Date Started: Date Completed: 04/09/09

Priority Level: Being considered for proposal to the NPL

SITEWIDE Operable Unit:

EPA Fund-Financed Primary Responsibility:

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:

Action: PROPOSAL TO NATIONAL PRIORITIES LIST

Date Started: 04/09/09 Date Completed: Priority Level: Not reported Operable Unit: SITEWIDE

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Not reported Not reported Urgency Indicator: Not reported Action Anomaly:

For detailed financial records, contact EDR for a Site Report.:

Action Code:

FINAL LISTING ON NATIONAL PRIORITIES LIST Action:

Date Started: Date Completed: 09/23/09 Not reported Priority Level: Operable Unit: SITEWIDE

Primary Responsibility: **EPA Fund-Financed** Planning Status: Not reported

Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003

Action: ISSUE REQUEST LETTERS (104E)

Date Started: Date Completed: 01/05/11

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Priority Level: Not reported
Operable Unit: VALLES MINES
Primary Responsibility: Federal Enforcement

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

Date Started: 01/05/11 Date Completed: 02/02/11

Priority Level: Search Complete, Viable PRPs

Operable Unit: VALLES MINES
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Date Started: 04/07/10
Date Completed: 09/12/12
Priority Level: Not reported

Operable Unit: STEWART-RESIDENTIAL SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Date Started: 04/07/10
Date Completed: 09/12/12
Priority Level: Not reported

Operable Unit: HISTORIAL MINING-RESID. SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Date Started: 04/07/10
Date Completed: 09/12/12
Priority Level: Not reported

Operable Unit: LUBBERS-RESIDENTIAL SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Primary
Urgency Indicator: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:

Action: RECORD OF DECISION

Date Started: Date Completed: 09/12/12 Priority Level: Not reported

Operable Unit: STEWART-RESIDENTIAL SOILS

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Primary Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002

RECORD OF DECISION Action:

Date Started:

Date Completed: 09/12/12 Priority Level: Not reported

Operable Unit: LUBBERS-RESIDENTIAL SOILS

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Primary Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: RECORD OF DECISION

Date Started:

Date Completed: 09/12/12 Priority Level: Not reported

Operable Unit: HISTORIAL MINING-RESID. SOILS

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Primary Urgency Indicator: Not reported Not reported Action Anomaly:

For detailed financial records, contact EDR for a Site Report.:

Action Code:

NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH Action:

Date Started: 05/13/11 Date Completed: 09/21/12

Priority Level: Search Complete, No Viable PRPs Operable Unit: HISTORIAL MINING-RESID. SOILS

Primary Responsibility: Federal Enforcement Planning Status: Not reported Not reported Urgency Indicator: Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

Date Started: 05/13/11 Date Completed: 09/21/12

Priority Level: Search Complete, No Viable PRPs Operable Unit: LUBBERS-RESIDENTIAL SOILS

Primary Responsibility: Federal Enforcement Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005

NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH Action:

Date Started: 05/13/11 Date Completed: 09/21/12

Priority Level: Search Complete, No Viable PRPs Operable Unit: STEWART-RESIDENTIAL SOILS

Primary Responsibility: Federal Enforcement

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002

NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH Action:

Date Started: 12/09/11 Date Completed: 09/21/12

Search Complete, No Viable PRPs Priority Level: Operable Unit: UNCONSOLIDATED MINE WASTE

Primary Responsibility: Federal Enforcement

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003

REMEDIAL DESIGN Action:

Date Started: 09/24/12 Date Completed: 12/12/12 Priority Level: Not reported

STEWART-RESIDENTIAL SOILS Operable Unit:

EPA Fund-Financed Primary Responsibility:

Planning Status: Primary Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002

Action: REMEDIAL DESIGN

09/24/12 Date Started: Date Completed: 12/12/12 Priority Level: Not reported

Operable Unit: LUBBERS-RESIDENTIAL SOILS

Primary Responsibility: **EPA Fund-Financed**

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: REMEDIAL DESIGN

Date Started: 09/24/12
Date Completed: 07/22/13
Priority Level: Not reported

Operable Unit: HISTORIAL MINING-RESID. SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL
Date Started: 10/01/07
Date Completed: / /
Priority Level: Stabilized
Operable Unit: SITEWIDE

Primary Responsibility: EPA Fund-Financed

Planning Status: Alternate
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: REMOVAL
Date Started: 10/05/07
Date Completed: / /
Priority Level: Stabilized

Operable Unit: STEWART-RESIDENTIAL SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Alternate
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMOVAL
Date Started: 10/05/07
Date Completed: / /
Priority Level: Stabilized

Operable Unit: LUBBERS-RESIDENTIAL SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Alternate
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Date Started: 08/30/11
Date Completed: / /

Priority Level: Not reported

Operable Unit: GROUNDWATER WELLS
Primary Responsibility: EPA Fund-Financed

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: TECHNICAL ASSISTANCE

Date Started: 06/21/13
Date Completed: / /
Priority Level: Not reported

Operable Unit: HISTORIAL MINING-RESID. SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status:
Urgency Indicator:
Action Anomaly:

Not reported
Not reported
Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 007

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Date Started: 09/18/13
Date Completed: //

Priority Level: Not reported

Operable Unit:

Primary Responsibility:

Planning Status:

Urgency Indicator:

Action Anomaly:

MINE WASTE PILES

EPA Fund-Financed

Not reported

Not reported

Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Date Started: 09/25/13
Date Completed: / /
Priority Level: Not reported

Operable Unit: UNCONSOLIDATED MINE WASTE

Primary Responsibility: EPA Fund-Financed Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

Action: REMEDIAL ACTION

Date Started: 09/27/13
Date Completed: / /
Priority Level: Not reported

Operable Unit: HISTORIAL MINING-RESID. SOILS

Primary Responsibility: EPA Fund-Financed

Planning Status: Alternate
Urgency Indicator: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:

Action: REMEDIAL ACTION

Date Started: 09/27/13 Date Completed:

Priority Level: Not reported

Operable Unit: LUBBERS-RESIDENTIAL SOILS

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Alternate Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003

REMEDIAL ACTION Action:

Date Started: 09/27/13 Date Completed: //

Priority Level: Not reported

STEWART-RESIDENTIAL SOILS Operable Unit:

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Alternate Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:

Fed Register Date: 09/23/09 Fed Register Volume: 74 Page Number: 48412

Fed Register Date: 04/09/09 Fed Register Volume: 74 Page Number: 16162

Click this hyperlink while viewing on your computer to access

2195 additional US CERCLIS Financial: record(s) in the EDR Site Report.

US ENG CONTROLS:

EPA ID: MON000705443 0705443 Site ID:

SOUTHWEST JEFFERSON COUNTY MINING Name: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Address:

JEFFERSON COUNTY, MO 63023

EPA Region: 07

JEFFERSON County: Event Code: Not reported Actual Date: 09/30/2012

Action ID: 001

RECORD OF DECISION Action Name:

Soil

Action Completion date: 09/12/2012 Operable Unit: Contaminated Media:

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Engineering Control: Disposal

Action ID: 001

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 01

Contaminated Media : Soil
Engineering Control: Excavation

Action ID: 001

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012

Operable Unit: 01 Contaminated Media : Soil

Engineering Control: Residential Topsoil Replacement

Action ID: 001

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 01 Contaminated Media : Soil

Engineering Control: Revegetation

Action ID: 001

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012

Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Soil Cover

Action ID: 002

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Disposal

Action ID: 002

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012
Operable Unit: 02
Contaminated Media : Soil

Contaminated Media : Soil Engineering Control: Excavation

Action ID: 002

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 02 Contaminated Media : Soil

Engineering Control: Residential Topsoil Replacement

Action ID: 002

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 02 Contaminated Media : Soil

Engineering Control: Revegetation

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

Action ID: 002

RECORD OF DECISION Action Name:

Action Completion date: 09/12/2012 Operable Unit: 02 Contaminated Media: Soil Engineering Control: Soil Cover

Action ID: 003

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil Engineering Control: Disposal

Action ID: 003

RECORD OF DECISION Action Name:

Action Completion date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil Excavation Engineering Control:

Action ID: 003

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil

Engineering Control: Residential Topsoil Replacement

Action ID:

RECORD OF DECISION Action Name:

Action Completion date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil

Engineering Control: Revegetation

Action ID: 003

Action Name: RECORD OF DECISION

Action Completion date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil Engineering Control: Soil Cover

US INST CONTROL:

EPA ID: MON000705443 Site ID: 0705443

SOUTHWEST JEFFERSON COUNTY MINING Name:

Action Name: RECORD OF DECISION

SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Address:

JEFFERSON COUNTY, MO 63023

EPA Region:

County: **JEFFERSON** Event Code: Not reported

Inst. Control: Building, demolition, or excavation regulation

09/30/2012 Actual Date: Complet. Date: 09/12/2012 Operable Unit: 01

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Contaminated Media: Soil

EPA ID: MON000705443 Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 01
Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 0

County: JEFFERSON
Event Code: Not reported
Inst. Control: Deed Notices
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 01
Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON
Event Code: Not reported
Inst. Control: Health Advisory
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 01

Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON Event Code: Not reported

Inst. Control: Institutional Controls, (N.O.S.)

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Actual Date: 09/30/2012 09/12/2012 Complet. Date: Operable Unit: 01 Contaminated Media: Soil

EPA ID: MON000705443 Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

RECORD OF DECISION Action Name:

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region:

County: **JEFFERSON** Event Code: Not reported

Inst. Control: Listing on Local Hazardous Waste Registry

09/30/2012 Actual Date: 09/12/2012 Complet. Date: Operable Unit: 01 Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

SOUTHWEST JEFFERSON COUNTY MINING Name:

Action Name: RECORD OF DECISION

SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Address:

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: **JEFFERSON** Event Code: Not reported Public meetings Inst. Control: Actual Date: 09/30/2012 Complet. Date: 09/12/2012 Operable Unit: 01

Contaminated Media: Soil

MON000705443 EPA ID: Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

RECORD OF DECISION Action Name:

SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Address:

JEFFERSON COUNTY, MO 63023

EPA Region:

County: **JEFFERSON** Event Code: Not reported

Inst. Control: Building, demolition, or excavation regulation

09/30/2012 Actual Date: Complet. Date: 09/12/2012 Operable Unit: 02 Contaminated Media: Soil

MON000705443 EPA ID: Site ID: 0705443

SOUTHWEST JEFFERSON COUNTY MINING Name:

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD..5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

County: JEFFERSON
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 02
Contaminated Media: Soil

EPA ID: MON000705443 Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON
Event Code: Not reported
Inst. Control: Deed Notices
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 02
Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON
Event Code: Not reported
Inst. Control: Health Advisory
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 02
Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON Event Code: Not reported

Inst. Control: Institutional Controls, (N.O.S.)

Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 02
Contaminated Media : Soil

EPA ID: MON000705443 Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Direction Distance

Elevation Site Database(s) EPA ID Number

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON Event Code: Not reported

Inst. Control: Listing on Local Hazardous Waste Registry

Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 02
Contaminated Media : Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON
Event Code: Not reported
Inst. Control: Public meetings
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 02
Contaminated Media: Soil

EPA ID: MON000705443 Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON Event Code: Not reported

Inst. Control: Building, demolition, or excavation regulation

Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 03
Contaminated Media : Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: JEFFERSON
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2012
Complet. Date: 09/12/2012
Operable Unit: 03
Contaminated Media: Soil

EPA ID: MON000705443

Direction Distance

Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

EDR ID Number

Site ID: 0705443

SOUTHWEST JEFFERSON COUNTY MINING Name:

RECORD OF DECISION Action Name:

SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Address:

JEFFERSON COUNTY, MO 63023

EPA Region:

County: **JEFFERSON** Event Code: Not reported Inst. Control: **Deed Notices** Actual Date: 09/30/2012 09/12/2012 Complet. Date: Operable Unit: 03

Contaminated Media: Soil

MON000705443 EPA ID:

Site ID: 0705443

SOUTHWEST JEFFERSON COUNTY MINING Name:

RECORD OF DECISION Action Name:

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region:

County: **JEFFERSON Event Code:** Not reported Inst. Control: Health Advisory Actual Date: 09/30/2012 09/12/2012 Complet. Date: Operable Unit: 03

Contaminated Media: Soil

MON000705443 EPA ID: 0705443 Site ID:

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD..5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region: 07

JEFFERSON County: Event Code: Not reported

Institutional Controls, (N.O.S.) Inst. Control:

09/30/2012 Actual Date: Complet. Date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil

EPA ID: MON000705443

Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

Address: SLVR LK TRL & THNDR RDG RD,.5M W HWY WW

JEFFERSON COUNTY, MO 63023

EPA Region:

County: **JEFFERSON** Not reported **Event Code:**

Inst. Control: Listing on Local Hazardous Waste Registry

Actual Date: 09/30/2012 Complet. Date: 09/12/2012

Operable Unit: 03

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOUTHWEST JEFFERSON COUNTY MINING (Continued)

1009805672

UST

U000284431

N/A

Contaminated Media: Soil

EPA ID: MON000705443 Site ID: 0705443

Name: SOUTHWEST JEFFERSON COUNTY MINING

Action Name: RECORD OF DECISION

SLVR LK TRL & THNDR RDG RD,.5M W HWY WW Address:

JEFFERSON COUNTY, MO 63023

EPA Region: 07

County: **JEFFERSON** Event Code: Not reported Inst. Control: Public meetings 09/30/2012 Actual Date: Complet. Date: 09/12/2012 Operable Unit: 03 Contaminated Media: Soil

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

Α1 **GENERAL AMERICAN LIFE INS CO ESE**

13045 TESSON FERRY RD < 1/8 **ST LOUIS, MO 63128**

0.014 mi.

Site 1 of 7 in cluster A 76 ft.

UST: Relative:

Facility ID: ST0006108 Higher Region: SL

Actual: Easting: 727929.109 602 ft. Northing: 4263717.96

> Owner Of Geospatial Data: Hazardous Waste Program

Geospatial Data Collected By: VANCE, S Date GIS Data Collected: 08/27/2013

Lat/Long: 38.49065 / -90.38204

Lat/Long (dms): Not reported

Tanks:

Owner:

Owner ID: OW04622

Owner Name: GENERAL AMERICAN LIFE INS CO

Owner Address: 700 MARKET STREET Owner City, St, Zip: **ST LOUIS, MO 63102**

Owner County Code: Not reported Owner Phone: 2311700 Mail Was Not Deliverable: No Is Owner Active?: No

Date Registration Received: Not reported Date Record Added: 1995-06-30 00:00:00 Date Record Edited: Not reported

Name of Person Editing Record: Not reported

Tank ID: 1 Tank Double Wall:

Tank Type: Below Ground **Tank Status:** Removed

Direction Distance Elevation

Site Database(s) **EPA ID Number**

No

Not reported

GENERAL AMERICAN LIFE INS CO (Continued)

Meet 98 Update Requirements:

Other Type Of Tank Material:

U000284431

Not reported

EDR ID Number

01/01/1978 Date Tank Installed: Tank Material: Fiberglass Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported

Tank Internal Protection: No

Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Unknown Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported 01/07/1991 Date Tank Last Used: Date Tank Permanently Closed/ Removed: 01/07/1991

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: Yes Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported Date Record Added: 06/30/1995 03/19/1996 Date Record Edited: Person Adding/Editing Record: Not reported Date Of NFA Letter: 01/07/1991 Is Tank Used For Emergency Generator: Nο

Date Closure Notice Received: 12/05/1990

Date Of Aprroval Letter: 1991-01-07 00:00:00 Firm Closing Tank: THE KIESEL COMPANY Date Closure Report Received: 1991-01-03 00:00:00

Registration End Date: Not reported

LockOut Flag: Nο

Comments: Not reported

Tank Compartment:

Tanks Use: False Compartment No: Tank Compartment PK: 15250 Tank PK: 15250 Case Number: Not reported Compartment Status: Removed Compartment Temp Verified Dt: Not reported

Capacity:

Substance: Gasoline, Including Blends

Substance Other: Not reported Not reported Hazardous Substance: Mixture: False

Date of Last Use: 1991-01-07 00:00:00

Pipe Installation Date: Not reported Pipe System: Not reported

Pipe Material:

Not reported Pipe Material Other: Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: False

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

GENERAL AMERICAN LIFE INS CO (Continued)

U000284431

Tank Aug 2011:

ST0006108 Facility Id:

Tank ld:

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported **Drinking Water:** Not reported Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

METROPOLITAN LIFE INSURANCE CO MET LIFE

RCRA NonGen / NLR 1012182767

MOR000534842

ESE 13045 TESSON FERRY RD **ST LOUIS, MO 63128** < 1/8

0.014 mi.

A2

76 ft. Site 2 of 7 in cluster A

Relative:

RCRA NonGen / NLR:

Date form received by agency: 06/29/2011 Higher

METROPOLITAN LIFE INSURANCE CO MET LIFE Facility name:

Actual: 602 ft.

Facility address: 13045 TESSON FERRY RD ST LOUIS, MO 63128-3407

EPA ID: MOR000534842 Contact: VICKIE POINSETT

13045 TESSON FERRY RD Contact address:

ST LOUIS, MO 63128-3407

Contact country: US

Contact telephone: (314) 525-9848

VPOINSETT@METLIFE.COM Contact email:

EPA Region: 07

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: METROPOLIT LIFE INSURANCE CO

Owner/operator address: 200 PARK AVE

NEW YORK, NY 10166

Owner/operator country: US

Owner/operator telephone: (800) 638-5433 Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 06/29/2011 Owner/Op end date: Not reported

METROPOLIT LIFE INSURANCE CO Owner/operator name:

Owner/operator address: 200 PARK AVE

NEW YORK, NY 10166

Owner/operator country: US

Owner/operator telephone: (800) 638-5433

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

METROPOLITAN LIFE INSURANCE CO MET LIFE (Continued)

1012182767

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/29/2011
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 10/05/2009

Site name: METROPOLITAN LIFE INSURANCE CO METLIFE

Classification: Small Quantity Generator

Date form received by agency: 09/08/2009
Site name: MET LIFE
Classification: Unverified

Violation Status: No violations found

A3 EDR US Hist Cleaners 1014987467
ESE 13078 TESSON FERRY RD N/A

< 1/8 SAINT LOUIS, MO 63128 0.016 mi.

87 ft. Site 3 of 7 in cluster A

Relative: Higher EDR Historical Cleaners:

Name: DIAL CLEANERS Year: 2001

Year: 2001 **Actual:** Address: 13078 TESSON FERRY RD

604 ft.

Name: DIAL CLEANERS

Year: 2002

Address: 13078 TESSON FERRY RD

Name: DIAL CLEANERS

Year: 2003

Address: 13078 TESSON FERRY RD

Name: DIAL CLEANERS

Year: 2004

Address: 13078 TESSON FERRY RD

Name: DIAL CLEANERS

Year: 2005

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

(Continued) 1014987467

Address: 13078 TESSON FERRY RD

DRYCLEANERS S106876894 Α4 **DIAL CLEANERS ESE**

13078 TESSON FERRY RD N/A

SAINT LOUIS, MO 63128 < 1/8

0.016 mi.

87 ft. Site 4 of 7 in cluster A

DRYCLEANERS: Relative:

Plant Number: 189-Higher DC Number: 90046 Actual: Facility Status: Not reported 604 ft. Facility Contact: Not reported Facility Phone: 314-842-8099

Site NA: True Dry Store: False DC Plant: False Supplier: False Chlorinated: False Non Chlorinated: False Supplier ID: Not reported OUID: 3873 Party ID: 873

Α5 **EDR US Hist Auto Stat** 1015204228 **ESE** 13090 TESSON FERRY RD N/A

SAINT LOUIS, MO 63128 < 1/8

0.021 mi.

109 ft. Site 5 of 7 in cluster A

EDR Historical Auto Stations: Relative: **ROYS AUTO CARE**

Name: Higher

Year: 2002 Actual: Address:

13090 TESSON FERRY RD 606 ft.

ROYS AUTO CARE Name:

> Year: 2003

13090 TESSON FERRY RD Address:

Name: **ROYS AUTO CARE**

2005 Year:

Address: 13090 TESSON FERRY RD

Name: **ROYS AUTO CARE**

Year: 2008

Address: 13090 TESSON FERRY RD

ROYS AUTO CARE Name:

Year:

13090 TESSON FERRY RD Address:

Name: **ROYS AUTO CARE**

Year: 2010

Address: 13090 TESSON FERRY RD

Direction Distance

Elevation Site Database(s) **EPA ID Number**

A6 **SHELL STATION** LUST U003182738 UST N/A

ESE 13090 TESSON FERRY RD **ST LOUIS, MO 63128** < 1/8

0.021 mi.

109 ft. Site 6 of 7 in cluster A

LUST: Relative:

ST0012895 Higher Facility ID:

Region: SL - St. Louis Regional Office

Actual: Lat/Long (dms): Not reported 606 ft. Spill Number: 990709-1422-AMV

Release Date: 08/25/1999

UNDERGROUND STORAGE TANK Release Type:

Date Cleanup Started: 10/11/1999 Date Cleanup Finished: 03/14/2002 Expedited: No **Expedited Date:** Not reported

Expenditures From The American Recovery and Reinvestment Act of 2009No

Not reported Reopened Date:

Number Of Remediation Monitoring Wells: Active:

Date Of NFA Letter From DNR: 2002-03-22 00:00:00

Date Record Meets Archive Criteria: 05/10/2011 Remediation ID: R006567 Rank: Not reported Emergeny Response Date: Not reported **Emergency Cleanup Start:** Not reported Referred To DGLS for Investigation: Not reported

Contractor Performing Clean Up: 167 **RBCA NFA:** No Project Manager:

Next Correspondence/Update With Fac: 04/05/2002 Date Added: 09/24/1999 Date Record Edited: 03/22/2002 Person Adding Or Editing Record: REPPER, S Facility Sent To State Archive: Yes Date Remediation Unit Closed The File: Not reported

Site Affectd By Funding Level From PSTIF: No

9/24/99 kk soil cont. in SP-2. 11/17/99 apr extension for SC plan, **General Comments:**

till closure report

received.

7-19-00 DL reviewed closure report. Removal of the contamination appears to be complete. However, other closure deficiencies were

12/5/01 MS rev file. Sent letter req response to waste disposal. 3/14/02 ET Rec'd response to our 12/18/01 letter. A nfa letter was

drafted.

Facility ID: ST0012895

Region: SL - St. Louis Regional Office

Lat/Long (dms): Not reported Spill Number: 940427-1430-KRT Release Date: 01/01/1994

Release Type: UNDERGROUND STORAGE TANK

Date Cleanup Started: 02/15/1995 Date Cleanup Finished: 02/15/1995 Expedited: No **Expedited Date:** Not reported

Expenditures From The American Recovery and Reinvestment Act of 2009No

Direction Distance Elevation

ion Site Database(s) EPA ID Number

SHELL STATION (Continued)

Reopened Date: Not reported

Number Of Remediation Monitoring Wells: 0
Active: No

Date Of NFA Letter From DNR: Not reported Date Record Meets Archive Criteria: Not reported R001946 Remediation ID: Not reported Rank: Not reported Emergeny Response Date: **Emergency Cleanup Start:** Not reported Referred To DGLS for Investigation: Not reported Contractor Performing Clean Up: Not reported

RBCA NFA: No Project Manager: L

Next Correspondence/Update With Fac:
Date Added:
Date Record Edited:
Person Adding Or Editing Record:
Facility Sent To State Archive:
Yes

Not reported
06/30/1995
04/24/2002
HUTSON, F
Yes

Date Remediation Unit Closed The File: Not reported

Site Affectd By Funding Level From PSTIF: No

General Comments: 02-15-95 - DT - INCIDENT CLOSURE.

UST:

 Facility ID:
 ST0012895

 Region:
 SL

 Easting:
 728321.5

 Northing:
 4263580.26

Owner Of Geospatial Data: Hazardous Waste Program

Geospatial Data Collected By: VANCE, S Date GIS Data Collected: 08/27/2013

Lat/Long: 38.4909371 / -90.382674

Lat/Long (dms): Not reported

Tanks:

Owner:

Owner ID: OW09865

Owner Name:EQUILON ENTERPRISES LLCOwner Address:5405 WEST 96TH STREETOwner City,St,Zip:INDIANAPOLIS, IN 46268

Owner County Code: 127
Owner Phone: 8700147
Mail Was Not Deliverable: No
Is Owner Active?: No

 Date Registration Received:
 1998-09-28 00:00:00

 Date Record Added:
 1998-09-29 00:00:00

 Date Record Edited:
 1998-11-23 00:00:00

Name of Person Editing Record: NRESSD

Tank ID: 1
Tank Double Wall: 0

Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: Yes
Date Tank Installed: 01/01/1979
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported

EDR ID Number

U003182738

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SHELL STATION (Continued) U003182738

Code for Tank Installer: Not reported Not reported Other Type Of Tank Material:

Tank Internal Protection: No

Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Not reported Tank External Protection: Other Type Tank Extrn Protec: Not reported Not reported Tank External Protec Date: Date Tank Last Used: 10/11/1999 Date Tank Permanently Closed/ Removed: 10/11/1999

Dt Tk Exp Brought InUse/Internal Tracking: Not reported

Tank Fees Waived: No Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported 06/30/1995 Date Record Added: Date Record Edited: 10/06/2000 Person Adding/Editing Record: KP3 Date Of NFA Letter: 09/02/1999

Is Tank Used For Emergency Generator: No Date Closure Notice Received: 08/25/1999

Date Of Aprroval Letter: 1999-09-02 00:00:00 **EQUILON ENTERPRISES** Firm Closing Tank: Date Closure Report Received: 2000-06-22 00:00:00

Registration End Date: Not reported

LockOut Flag:

Comments: 3/14/02 ET A nfa was drafted.

Tank Compartment:

Tanks Use: False Compartment No: 32345 Tank Compartment PK: Tank PK: 32345 Case Number: Not reported Compartment Status: Removed Compartment Temp Verified Dt: Not reported Capacity: 10000

Gasoline, Including Blends Substance:

Not reported Substance Other: Not reported Hazardous Substance: Mixture: False

Date of Last Use: 1999-10-11 00:00:00 1979-01-01 00:00:00 Pipe Installation Date:

Pipe System: Pipe Material:

Pipe Material Other: Not reported Not reported Pipe Protection: Pipe Protection Date: Not reported

Pipe Double Wall: 0 Spill Protection: True

Owner:

Owner ID: OW09865

Owner Name: **EQUILON ENTERPRISES LLC**

Direction Distance

Elevation Site Database(s) EPA ID Number

SHELL STATION (Continued)

U003182738

EDR ID Number

Owner Address: 5405 WEST 96TH STREET
Owner City,St,Zip: INDIANAPOLIS, IN 46268

Owner County Code: 127
Owner Phone: 8700147
Mail Was Not Deliverable: No
Is Owner Active?: No

 Date Registration Received:
 1998-09-28 00:00:00

 Date Record Added:
 1998-09-29 00:00:00

 Date Record Edited:
 1998-11-23 00:00:00

Name of Person Editing Record: NRESSD

Tank ID: 2
Tank Double Wall: 0

Tank Type: Below Ground **Tank Status:** Removed Meet 98 Update Requirements: Yes Date Tank Installed: 01/01/1979 Tank Material: Fiberglass Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported Tank Internal Protection: No

Other Tank Internal Protection:

Tank Internal Protection Date:

Not reported
Tank External Protection:

Other Type Tank Extrn Protec:

Tank External Protec Date:

Not reported
Not reported
Not reported
Tank External Protec Date:

Not reported
Not reported
Date Tank Last Used:

10/11/1999
Date Tank Permanently Closed/ Removed: 10/11/1999

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: No Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Not reported Temporary Status Verified Date: Admin Fee 585: Not reported Date Administratively Closed: Not reported Date Record Added: 06/30/1995 Date Record Edited: 10/06/2000 Person Adding/Editing Record: KP3 Date Of NFA Letter: 09/02/1999

Is Tank Used For Emergency Generator: No Date Closure Notice Received: 08/25/1999

Date Of Aprroval Letter: 1999-09-02 00:00:00
Firm Closing Tank: EQUILON ENTERPRISES
Date Closure Report Received: 2000-06-22 00:00:00

Registration End Date: Not reported

LockOut Flag: No

Comments: 3/14/02 ET A nfa was drafted.

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 32346
Tank PK: 32346
Case Number: Not reported
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported

TC4085433.2s Page 35

Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SHELL STATION (Continued)

U003182738

Capacity: 10000

Gasoline, Including Blends Substance:

Not reported Substance Other: Hazardous Substance: Not reported Mixture: False

1999-10-11 00:00:00 Date of Last Use: 1979-01-01 00:00:00 Pipe Installation Date:

Pipe System: Pipe Material:

Pipe Material Other: Not reported Not reported Pipe Protection: Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: True

Owner:

Owner ID: OW09865

Owner Name: **EQUILON ENTERPRISES LLC** Owner Address: 5405 WEST 96TH STREET Owner City, St, Zip: INDIANAPOLIS, IN 46268

Owner County Code: 127 Owner Phone: 8700147 Mail Was Not Deliverable: No Is Owner Active?: No

Date Registration Received: 1998-09-28 00:00:00 1998-09-29 00:00:00 Date Record Added: Date Record Edited: 1998-11-23 00:00:00

Name of Person Editing Record: NRESSD

Tank ID: 3 Tank Double Wall: 0

Tank Type: Below Ground Tank Status: Removed Meet 98 Update Requirements: Yes Date Tank Installed: 01/01/1970 Tank Material: Fiberglass Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported

Tank Internal Protection: No

Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Date Tank Last Used: 10/11/1999 Date Tank Permanently Closed/ Removed: 10/11/1999

Dt Tk Exp Brought InUse/Internal Tracking: Not reported

Tank Fees Waived: No Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported 06/30/1995 Date Record Added:

Direction Distance

Elevation Site Database(s) EPA ID Number

SHELL STATION (Continued)

U003182738

EDR ID Number

Date Record Edited: 10/06/2000
Person Adding/Editing Record: KP3
Date Of NFA Letter: 09/02/1999
Is Tank Used For Emergency Generator: No

Date Closure Notice Received: 08/25/1999

Date Of Aprroval Letter: 1999-09-02 00:00:00
Firm Closing Tank: EQUILON ENTERPRISES
Date Closure Report Received: 2000-06-22 00:00:00

Registration End Date: Not reported

LockOut Flag: No

Comments: 3/14/02 ET A nfa was drafted.

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 32347
Tank PK: 32347
Case Number: Not reported
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 8000

Substance: Gasoline, Including Blends

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False

Date of Last Use: 1999-10-11 00:00:00
Pipe Installation Date: 1979-01-01 00:00:00

Pipe System: 1
Pipe Material: 2

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: 0
Spill Protection: True

Owner:

Owner ID: OW09865

Owner Name: EQUILON ENTERPRISES LLC
Owner Address: 5405 WEST 96TH STREET
Owner City,St,Zip: INDIANAPOLIS, IN 46268

Owner County Code: 127
Owner Phone: 8700147
Mail Was Not Deliverable: No
Is Owner Active?: No

 Date Registration Received:
 1998-09-28 00:00:00

 Date Record Added:
 1998-09-29 00:00:00

 Date Record Edited:
 1998-11-23 00:00:00

Name of Person Editing Record: NRESSD

Tank ID: 4
Tank Double Wall: 0

Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

SHELL STATION (Continued) U003182738

Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No

Other Tank Internal Protection:

Tank Internal Protection Date:

Not reported
Not reported
None

None
Other Type Tank Extrn Protec:

Not reported
Not reported

Other Type Tank Extrn Protec:

Tank External Protec Date:

Not reported
Not reported
Not reported
Or/01/1990

Date Tank Last Used:

07/01/1990

Date Tank Permanently Closed/ Removed: 07/16/1990

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: No Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported 06/30/1995 Date Record Added: Date Record Edited: Not reported Person Adding/Editing Record: Not reported 12/04/1990 Date Of NFA Letter: Is Tank Used For Emergency Generator: No

Date Closure Notice Received: 06/26/1990

Date Of Aprroval Letter: 1990-12-04 00:00:00
Firm Closing Tank: SHELL OIL COMPANY
Date Closure Report Received: 1990-11-15 00:00:00

Registration End Date: Not reported

LockOut Flag: No

Comments: APPROVED BY LAB.

Tank Compartment:

Tanks Use: False Compartment No: Tank Compartment PK: 32348 Tank PK: 32348 Case Number: Not reported Compartment Status: Removed Compartment Temp Verified Dt: Not reported Capacity: 550 Substance: Used Oil Substance Other: Not reported Hazardous Substance: Not reported

Mixture: False

Date of Last Use: 1990-07-01 00:00:00

Pipe Installation Date: Not reported

Pipe System: 4
Pipe Material: 1

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: 0
Spill Protection: False

Owner:

EDR ID Number

Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SHELL STATION (Continued)

U003182738

Owner ID: OW09865

EQUILON ENTERPRISES LLC Owner Name: Owner Address: 5405 WEST 96TH STREET INDIANAPOLIS, IN 46268 Owner City, St, Zip:

Owner County Code: 127 8700147 Owner Phone: Mail Was Not Deliverable: No Is Owner Active?: No

Date Registration Received: 1998-09-28 00:00:00 Date Record Added: 1998-09-29 00:00:00 Date Record Edited: 1998-11-23 00:00:00

Name of Person Editing Record: **NRESSD**

5 Tank ID: Tank Double Wall: n

Tank Type: Below Ground **Tank Status:** Removed Meet 98 Update Requirements: Yes 01/01/1990 Date Tank Installed: Fiberglass Tank Material: Code for Tank Material Manufacturer: Not reported Not reported Code for Tank Installer: Other Type Of Tank Material: Not reported Tank Internal Protection: No Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported 10/11/1999 Date Tank Last Used: Date Tank Permanently Closed/ Removed: 10/11/1999

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: No Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported Date Record Added: 06/30/1995 Date Record Edited: 10/06/2000 Person Adding/Editing Record: KP3 Date Of NFA Letter: 09/02/1999

Is Tank Used For Emergency Generator: No Date Closure Notice Received: 08/25/1999

Date Of Aprroval Letter: 1999-09-02 00:00:00 Firm Closing Tank: **EQUILON ENTERPRISES** Date Closure Report Received: 2000-06-22 00:00:00

Registration End Date: Not reported

LockOut Flag:

Comments: 3/14/02 ET A nfa was drafted.

Tank Compartment:

Tanks Use: False Compartment No: Tank Compartment PK: 32349 Tank PK: 32349 Case Number: Not reported Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SHELL STATION (Continued)

U003182738

Compartment Status: Removed Compartment Temp Verified Dt: Not reported Capacity: 1000 Substance: Used Oil Substance Other: Not reported Not reported Hazardous Substance: Mixture: False

1999-10-11 00:00:00 Date of Last Use: Pipe Installation Date: 1990-01-01 00:00:00

Pipe System: Pipe Material: 2

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: True

Tank Aug 2011:

Facility Id: ST0012895

Tank Id:

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

Facility Id: ST0012895

Tank Id: 2

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Not reported Offsite Impact: Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

Facility Id: ST0012895

Tank Id: 3

Direction Distance Elevation

Site Database(s) EPA ID Number

SHELL STATION (Continued)

U003182738

EDR ID Number

Site Usage: Not reported Not reported Risk Type: Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0012895

Tank ld: 4

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0012895

Tank ld: 5

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported **Drinking Water:** Not reported Closed Under: Not reported

No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

B7 BUTLER HILL SHELL EDR US Hist Auto Stat 1009113052
ESE 13090 TESSON FERRY RD N/A

ESE 13090 TESSON FERRY RD < 1/8 SAPPINGTON, MO

0.024 mi.

129 ft. Site 1 of 3 in cluster B

Relative: EDR Historical Auto Stations:

Higher Name: BUTLER HILL SHELL

Year: 1973

Actual: Type: GASOLINE STATIONS

607 ft.

Name: BUTLER HILL SHELL Year: 1979

Type: GASOLINE STATIONS

C8 EDR US Hist Auto Stat 1015205230

SE 13117 TESSON FERRY RD < 1/8 SAINT LOUIS, MO 63128

0.045 mi.

236 ft. Site 1 of 6 in cluster C

Relative: EDR Historical Auto Stations:

Higher Name: TOTAL PETROLEUM INC

Year: 2004

Actual: Address: 13117 TESSON FERRY RD

617 ft.

C9 MPI 20 LUST U003197863

SE 13117 TESSON FERRY RD UST N/A

< 1/8 MEHLVILLE, MO 63128

0.045 mi.

236 ft. Site 2 of 6 in cluster C

Relative: LUST:

Higher Facili

Facility ID: ST0006217

Region: SL - St. Louis Regional Office
Lat/Long (dms): Not reported

Actual: Lat/Long (dms): Not reported
617 ft. Spill Number: Not reported
Release Date: 12/08/1993

Release Type: UNDERGROUND STORAGE TANK

Date Cleanup Started: 11/29/1993
Date Cleanup Finished: 11/21/1994
Expedited: No
Expedited Date: Not reported

Expenditures From The American Recovery and Reinvestment Act of 2009No

Reopened Date: Not reported

Number Of Remediation Monitoring Wells: 0
Active: No

Date Of NFA Letter From DNR: 1994-11-21 00:00:00

Date Record Meets Archive Criteria: Not reported R004363 Remediation ID: Rank: Not reported Emergeny Response Date: Not reported **Emergency Cleanup Start:** Not reported Referred To DGLS for Investigation: Not reported Contractor Performing Clean Up: Not reported RBCA NFA: No Project Manager: L

Next Correspondence/Update With Fac: Not reported

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

MPI 20 (Continued) U003197863

Date Added: 06/30/1995
Date Record Edited: 06/30/2000
Person Adding Or Editing Record: GARRETT, V

Facility Sent To State Archive: Yes
Date Remediation Unit Closed The File: Not reported

Site Affectd By Funding Level From PSTIF: No

General Comments: 11-21-94 - FILE CLOSED. 6-30-00 vg rec documentation on closure of

MWs. Site can remain closed.

UST:

 Facility ID:
 ST0006217

 Region:
 SL

 Easting:
 728227.449

 Northing:
 4263418.75

Owner Of Geospatial Data: Hazardous Waste Program

Geospatial Data Collected By: VANCE, S Date GIS Data Collected: 08/27/2013

Lat/Long: 38.4891339 / -90.383134

Lat/Long (dms): Not reported

Tanks:

Owner:

Tank Type:

Owner ID: OW20846

Owner Name: CONVENIENCE HOLDINGS, INC

Owner Address: P. O. BOX 1707

Owner City,St,Zip: JEFFERSON CITY, MO 65102 1707

Owner County Code:

Owner Phone:

Mail Was Not Deliverable:

Is Owner Active?:

Not reported
7614855

No
Yes

 Date Registration Received:
 2005-05-24 00:00:00

 Date Record Added:
 2005-06-08 00:00:00

 Date Record Edited:
 2013-08-27 00:00:00

 Name of Person Editing Record:
 KIRCHNER, M

Tank ID: 1
Tank Double Wall: 0

Tank Status: Removed Meet 98 Update Requirements: No Date Tank Installed: 01/01/1977 Tank Material: Steel Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Not reported Date Tank Last Used: Date Tank Permanently Closed/ Removed: 04/21/2006

Dt Tk Exp Brought InUse/Internal Tracking:

Not reported

Below Ground

Tank Fees Waived: No Expedite Closure On Tank?: No

Direction Distance

Elevation Site Database(s) EPA ID Number

MPI 20 (Continued) U003197863

Responsible Person Expediting Closure: CM

Temporary Status Verified Date:

Admin Fee 585:

Date Administratively Closed:

Date Record Added:

Date Record Edited:

Person Adding/Editing Record:

Date Of NFA Letter:

Not reported

Not reported

Not reported

Not reported

WashBURN, M

11/02/2006

Is Tank Used For Emergency Generator: No

Date Closure Notice Received: 10/24/2005

Date Of Aprroval Letter: 2005-10-28 00:00:00
Firm Closing Tank: THE KEISEL COMPANY
Date Closure Report Received: 2006-05-26 00:00:00
Registration End Date: 2009-09-30 00:00:00

LockOut Flag: No

Comments: Reviewed closure report & now requesting: (1) in the future to be

notified 3 days prior to site mobilization, (2) explain whether

groundwater was encountered & supporting documentation, (3) explain whether bedrock was encountered, (4) submit QA/QC data, (5) resubmit corrected chain of custody forms, (6) explain discrepancy between 22,000 gals. of wastewater on CR-1 form and the approval letter from MSD for 6,000 gals., (7) explain why CR-1 form has 1,137 gals of sludge/rinsate and haz. Waste manifest says 1,400 gals., and (8) need tank destruction form signed & returned. 8/24/06 BB11/02/06 -

Reviewed response. All items adequately addressed. Issuing NFA for

residential land use. - MW

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 15576
Tank PK: 15576
Case Number: Not reported
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 10000

Substance: Gasoline, Including Blends

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported

Pipe Installation Date: 1977-01-01 00:00:00

Pipe System: 1
Pipe Material: 2

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: 0
Spill Protection: True

Owner:

Owner ID: OW20846

Owner Name: CONVENIENCE HOLDINGS, INC

Owner Address: P. O. BOX 1707

Owner City, St, Zip: JEFFERSON CITY, MO 65102 1707

Owner County Code: Not reported

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

MPI 20 (Continued) U003197863

Owner Phone: 7614855
Mail Was Not Deliverable: No
Is Owner Active?: Yes

 Date Registration Received:
 2005-05-24 00:00:00

 Date Record Added:
 2005-06-08 00:00:00

 Date Record Edited:
 2013-08-27 00:00:00

 Name of Person Editing Record:
 KIRCHNER, M

Tank ID: 2
Tank Double Wall: 0

Tank Type: **Below Ground** Tank Status: Removed Meet 98 Update Requirements: Date Tank Installed: 01/01/1977 Tank Material: Steel Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported

Dt Tk Exp Brought InUse/Internal Tracking:

Date Tank Last Used:

Tank Fees Waived: No

Date Tank Permanently Closed/ Removed: 04/21/2006

Expedite Closure On Tank?: No Responsible Person Expediting Closure: CM

Temporary Status Verified Date:

Admin Fee 585:

Date Administratively Closed:

Date Record Added:

Date Record Edited:

Person Adding/Editing Record:

Date Of NFA Letter:

Not reported

Not reported

08/10/2009

WASHBURN, M

11/02/2006

Is Tank Used For Emergency Generator: No

Date Closure Notice Received: 10/24/2005

Date Of Aprroval Letter:2005-10-28 00:00:00Firm Closing Tank:THE KEISEL COMPANYDate Closure Report Received:2006-05-26 00:00:00Registration End Date:2009-09-30 00:00:00

LockOut Flag: No

Comments: Reviewed closure report & now requesting: (1) in the future to be

Not reported

notified 3 days prior to site mobilization, (2) explain whether

groundwater was encountered & supporting documentation, (3) explain whether bedrock was encountered, (4) submit QA/QC data, (5) resubmit corrected chain of custody forms, (6) explain discrepancy between 22,000 gals. of wastewater on CR-1 form and the approval letter from MSD for 6,000 gals., (7) explain why CR-1 form has 1,137 gals of sludge/rinsate and haz. Waste manifest says 1,400 gals., and (8) need tank destruction form signed & returned. 8/24/06 BB11/02/06 - Reviewed response. All items adequately addressed. Issuing NFA for

Not reported

residential land use. - MW

Direction Distance Elevation

Site Database(s) EPA ID Number

MPI 20 (Continued) U003197863

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 15577
Tank PK: 15577
Case Number: Not reported
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 10000

Substance: Gasoline, Including Blends

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported

Pipe Installation Date: 1977-01-01 00:00:00

Pipe System: 1
Pipe Material: 2

Pipe Material Other:
Pipe Protection:
Not reported
Not reported
Not reported
Not reported

Pipe Double Wall: 0
Spill Protection: True

Owner:

Owner ID: OW20846

Owner Name: CONVENIENCE HOLDINGS, INC

Owner Address: P. O. BOX 1707

Owner City,St,Zip: JEFFERSON CITY, MO 65102 1707

Owner County Code:

Owner Phone:

Mail Was Not Deliverable:

Is Owner Active?:

No Teported
7614855

No
Yes

 Date Registration Received:
 2005-05-24 00:00:00

 Date Record Added:
 2005-06-08 00:00:00

 Date Record Edited:
 2013-08-27 00:00:00

 Name of Person Editing Record:
 KIRCHNER, M

Tank ID: 3
Tank Double Wall: 0

Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1977
Tank Material: Steel
Code for Tank Meterial Manufacturer: Net reported

Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Not reported Tank Internal Protection Date: Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Date Tank Last Used: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MPI 20 (Continued) U003197863

Date Tank Permanently Closed/ Removed: 04/21/2006

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived:

Date Of NFA Letter:

No

Expedite Closure On Tank?: No Responsible Person Expediting Closure: CM

Temporary Status Verified Date: Not reported Not reported Admin Fee 585: Date Administratively Closed: Not reported Date Record Added: Not reported Date Record Edited: 08/10/2009 Person Adding/Editing Record: WASHBURN, M

Is Tank Used For Emergency Generator: No

Date Closure Notice Received: 10/24/2005

2005-10-28 00:00:00 Date Of Aprroval Letter: Firm Closing Tank: THE KEISEL COMPANY Date Closure Report Received: 2006-05-26 00:00:00 2009-09-30 00:00:00 Registration End Date:

LockOut Flag:

Comments: Reviewed closure report & now requesting: (1) in the future to be

11/02/2006

notified 3 days prior to site mobilization, (2) explain whether

groundwater was encountered & supporting documentation, (3) explain whether bedrock was encountered, (4) submit QA/QC data, (5) resubmit corrected chain of custody forms, (6) explain discrepancy between 22,000 gals. of wastewater on CR-1 form and the approval letter from MSD for 6,000 gals., (7) explain why CR-1 form has 1,137 gals of sludge/rinsate and haz. Waste manifest says 1,400 gals., and (8) need tank destruction form signed & returned. 8/24/06 BB11/02/06 Reviewed response. All items adequately addressed. Issuing NFA for

Not reported

residential land use. - MW

Tank Compartment:

Tanks Use: False Compartment No: 15578 Tank Compartment PK: Tank PK: 15578 Case Number: Not reported Compartment Status: Removed Compartment Temp Verified Dt: Not reported 10000 Capacity:

Gasoline, Including Blends Substance:

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported

Pipe Installation Date: 1977-01-01 00:00:00

Pipe System: Pipe Material:

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: True

Owner:

Owner ID: OW20846

Direction Distance

Elevation Site Database(s) EPA ID Number

MPI 20 (Continued) U003197863

Owner Name: CONVENIENCE HOLDINGS, INC

Owner Address: P. O. BOX 1707

Owner City, St, Zip: JEFFERSON CITY, MO 65102 1707

Owner County Code:

Owner Phone:

Mail Was Not Deliverable:

Is Owner Active?:

Not reported
7614855

No
Yes

 Date Registration Received:
 2005-05-24 00:00:00

 Date Record Added:
 2005-06-08 00:00:00

 Date Record Edited:
 2013-08-27 00:00:00

 Name of Person Editing Record:
 KIRCHNER, M

Tank ID: 4
Tank Double Wall: 0

Tank Type: Below Ground **Tank Status:** Removed Meet 98 Update Requirements: No Date Tank Installed: 01/01/1977 Tank Material: Steel Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported

Tank Internal Protection Date:

Tank External Protection:

Other Type Tank Extrn Protec:

Tank External Protec Date:

Date Tank Last Used:

Date Tank Permanently Closed/ Removed: 04/21/2006

Dt Tk Exp Brought InUse/Internal Tracking: Not reported

Tank Fees Waived: No Expedite Closure On Tank?: No Responsible Person Expediting Closure: CM

Temporary Status Verified Date:

Admin Fee 585:

Date Administratively Closed:

Date Record Added:

Date Record Edited:

Person Adding/Editing Record:

Date Of NFA Letter:

Not reported

Not reported

08/10/2009

WASHBURN, M

11/02/2006

Is Tank Used For Emergency Generator: No

Date Closure Notice Received: 10/24/2005

Date Of Aprroval Letter: 2005-10-28 00:00:00
Firm Closing Tank: THE KEISEL COMPANY
Date Closure Report Received: 2006-05-26 00:00:00
Registration End Date: 2009-09-30 00:00:00

LockOut Flag: No

Comments: Reviewed closure report & now requesting: (1) in the future to be

notified 3 days prior to site mobilization, (2) explain whether

groundwater was encountered & supporting documentation, (3) explain whether bedrock was encountered, (4) submit QA/QC data, (5) resubmit corrected chain of custody forms, (6) explain discrepancy between 22,000 gals. of wastewater on CR-1 form and the approval letter from MSD for 6,000 gals., (7) explain why CR-1 form has 1,137 gals of sludge/rinsate and haz. Waste manifest says 1,400 gals., and (8) need

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MPI 20 (Continued) U003197863

> tank destruction form signed & returned. 8/24/06 BB11/02/06 -Reviewed response. All items adequately addressed. Issuing NFA for residential land use. - MW

Tank Compartment:

Tanks Use: False Compartment No: Tank Compartment PK: 15579 Tank PK: 15579 Case Number: Not reported Compartment Status: Removed Compartment Temp Verified Dt: Not reported Capacity: 10000 Substance: Diesel Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported

Pipe Installation Date: 1977-01-01 00:00:00

Pipe System: Pipe Material: 2

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: True

Tank Aug 2011:

Facility Id: ST0006217

Tank ld: 1 Site Usage: 1 Risk Type: 3 Soil Type: 38 GW Flow: 13 Offsite Impact: 17 Free Product: 0 **Drinking Water:** 42

Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

ST0006217 Facility Id:

Tank Id: 2 Site Usage: 1 Risk Type: 3 Soil Type: 38 GW Flow: 13 Offsite Impact: 17 Free Product: 0 Drinking Water: 42

Closed Under: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MPI 20 (Continued) U003197863

No Drinking Wells: No No Buildings: No Vapor Barrier: O St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

Facility Id: ST0006217

Tank Id: 3 Site Usage: 1 Risk Type: 3 Soil Type: 38 GW Flow: 13 Offsite Impact: 17 Free Product: 0 Drinking Water: 42

Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

Facility Id: ST0006217

Tank Id: 4 Site Usage: 1 Risk Type: 3 Soil Type: 38 GW Flow: 13 Offsite Impact: 17 Free Product: 0 **Drinking Water:** 42

Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

C10 **EDR US Hist Auto Stat** 1015205221 13116 TESSON FERRY RD N/A

SE < 1/8 SAINT LOUIS, MO 63128 0.048 mi.

254 ft.

Site 3 of 6 in cluster C

Relative: Higher Name: MATTESE AUTO REPAIR INC

EDR Historical Auto Stations:

2001 Year:

Actual: Address: 13116 TESSON FERRY RD 617 ft.

MATTESE AUTO REPAIR Name: Year: 2002

> Address: 13116 TESSON FERRY RD

Direction Distance

Elevation Site Database(s) EPA ID Number

(Continued) 1015205221

Name: MATTESE AUTO REPAIR INC

Year: 2003

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2005

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2007

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2008

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2009

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2010

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2011

Address: 13116 TESSON FERRY RD

Name: MATTESE AUTO REPAIR INC

Year: 2012

Address: 13116 TESSON FERRY RD

B11 QUIKTRIP AST A100342360
SE 13099 TESSON FERRY N/A

SE 13099 TESSON FERRY < 1/8 MATTESE, MO 63128

0.057 mi.

299 ft. Site 2 of 3 in cluster B

Relative:

AST:

Higher Facility ID: 8178
Facility Telephone Number: Not reported

Actual: 615 ft.

Total # of dispensers: 60
Total # of cabinets: 10
Total number of meters: 40
AST Count: 0
UST Count: 0
Product Count: 87;89;93;
DOR Tax Number: Not reported

Prof Cat: KCA;STA; Latitude: Not reported Longitude: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

B12 QUIKTRIP #678 UST U003980389
SE 13099 TESSON FERRY RD N/A

SE 13099 TESSON FERRY R < 1/8 ST LOUIS, MO 63128

0.057 mi.

299 ft. Site 3 of 3 in cluster B

Relative: UST:

Higher Facility ID: ST0021260

Region: SL

 Actual:
 Easting:
 728223.647

 615 ft.
 Northing:
 4263550.38

Owner Of Geospatial Data: Hazardous Waste Program

Geospatial Data Collected By: CON_Fortin,Joel
Date GIS Data Collected: 03/29/2014
Lat/Long: 38.49117 / -90.3832
Lat/Long (dms): Not reported

Tanks:

Owner:

Owner ID: OW00306

Owner Name: QUIKTRIP CORPORATION

Owner Address: 4705 S 129TH E AVE PO BOX 3475

Owner City,St,Zip: TULSA, OK 74134
Owner County Code: Not reported
Owner Phone: 6157658
Mail Was Not Deliverable: No
Is Owner Active?: Yes

Date Registration Received: Not reported

Date Record Added: 1995-06-30 00:00:00

Date Record Edited: 2014 03 10 00:00:00

Date Record Edited: 2014-03-10 00:00:00
Name of Person Editing Record: BERVE, TRISHA

Tank ID: 1
Tank Double Wall: -1

Tank Type: Below Ground
Tank Status: Curently in use

Meet 98 Update Requirements: Yes 05/05/2004 Date Tank Installed: Tank Material: Fiberglass Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Not reported Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Not reported Tank Internal Protection Date: Not reported Tank External Protection: Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Date Tank Last Used: Not reported Date Tank Permanently Closed/ Removed: Not reported

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: No

Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported

Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 07/09/2004

Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

QUIKTRIP #678 (Continued) U003980389

Date Record Edited: 10/30/2012
Person Adding/Editing Record: SESSLER, D
Date Of NFA Letter: Not reported

Is Tank Used For Emergency Generator: No

Date Closure Notice Received:

Date Of Aprroval Letter:

Not reported

Registration End Date:

2018-09-30 00:00:00

LockOut Flag: No

Comments: Not reported

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 38836
Tank PK: 38841
Case Number: Not reported
Compartment Status: Currently in use
Compartment Temp Verified Dt: Not reported
Capacity: 20000

Substance: Gasoline, Including Blends

Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: Not reported
Pipe Installation Date: 2004-05-17 00:00:00

Pipe System: 1
Pipe Material: 8

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: 0
Spill Protection: True

Owner:

Owner ID: OW00306

Owner Name: QUIKTRIP CORPORATION
Owner Address: 4705 S 129TH E AVE PO BOX 3475

Owner City,St,Zip: TULSA, OK 74134
Owner County Code: Not reported
Owner Phone: 6157658
Mail Was Not Deliverable: No
Is Owner Active?: Yes

Date Registration Received: Not reported

Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2014-03-10 00:00:00
Name of Person Editing Record: BERVE, TRISHA

Tank ID: 2
Tank Double Wall: -1

Tank Type: Below Ground
Tank Status: Curently in use

Meet 98 Update Requirements: Yes
Date Tank Installed: 05/05/2004

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

QUIKTRIP #678 (Continued) U003980389

Not reported

Tank Material: Fiberglass Not reported Code for Tank Material Manufacturer: Not reported Code for Tank Installer: Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Not reported Other Tank Internal Protection: Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Date Tank Last Used: Not reported Date Tank Permanently Closed/ Removed: Not reported

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported 07/09/2004 Date Record Added: Date Record Edited: 10/30/2012 Person Adding/Editing Record: SESSLER, D Not reported Date Of NFA Letter: Is Tank Used For Emergency Generator: No Date Closure Notice Received: Not reported Date Of Aprroval Letter: Not reported

Date Closure Report Received: Not reported 2018-09-30 00:00:00 Registration End Date:

Not reported

LockOut Flag: No

Comments: Not reported

Tank Compartment:

Firm Closing Tank:

Tanks Use: False Compartment No: Tank Compartment PK: 38837 Tank PK: 38842 Not reported Case Number: Compartment Status: Curently in use Compartment Temp Verified Dt: Not reported Capacity: 20000

Substance: Gasoline, Including Blends

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported 2004-05-17 00:00:00 Pipe Installation Date:

Pipe System: Pipe Material:

Not reported Pipe Material Other: Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: True

Owner:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

QUIKTRIP #678 (Continued) U003980389

Owner ID: OW00306

QUIKTRIP CORPORATION Owner Name:

4705 S 129TH E AVE PO BOX 3475 Owner Address:

Owner City, St, Zip: TULSA, OK 74134 Owner County Code: Not reported 6157658 Owner Phone: Mail Was Not Deliverable: No Is Owner Active?: Yes

Date Registration Received: Not reported Date Record Added: 1995-06-30 00:00:00 2014-03-10 00:00:00 Date Record Edited: Name of Person Editing Record: BERVE, TRISHA

Tank ID: 3 Tank Double Wall: -1

Tank Type: Below Ground **Tank Status:** Curently in use

Meet 98 Update Requirements: Yes 05/05/2004 Date Tank Installed: Fiberglass Tank Material: Code for Tank Material Manufacturer: Not reported Not reported Code for Tank Installer: Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Date Tank Last Used: Not reported Date Tank Permanently Closed/ Removed: Not reported

Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived: No Expedite Closure On Tank?: No

Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Date Administratively Closed: Not reported Date Record Added: 07/09/2004 Date Record Edited: 10/30/2012 Person Adding/Editing Record: SESSLER, D Date Of NFA Letter: Not reported

Is Tank Used For Emergency Generator: No

Date Closure Notice Received: Not reported Date Of Aprroval Letter: Not reported Firm Closing Tank: Not reported Date Closure Report Received: Not reported

Registration End Date: 2018-09-30 00:00:00

LockOut Flag: No

Comments: Not reported

Tank Compartment:

Tanks Use: False Compartment No: Tank Compartment PK: 38838 Tank PK: 38843 Case Number: Not reported

Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

QUIKTRIP #678 (Continued)

U003980389

Compartment Status: Curently in use Not reported Compartment Temp Verified Dt: Capacity: 12000

Substance: Gasoline, Including Blends

8

Substance Other: Not reported Not reported Hazardous Substance: Mixture: False Date of Last Use: Not reported Pipe Installation Date: 2004-05-17 00:00:00

Pipe System:

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: Spill Protection: True

Tank Aug 2011:

Pipe Material:

Facility Id: ST0021260

Tank Id:

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

Facility Id: ST0021260

Tank Id: 2

Site Usage: Not reported Risk Type: Not reported Soil Type: Not reported GW Flow: Not reported Not reported Offsite Impact: Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No No Buildings: No Vapor Barrier: 0 St Louis Mo: No Special Well Area: No Surface Cap: No No Excavation: No

Facility Id: ST0021260

Tank Id: 3

Direction Distance

C13

Elevation Site Database(s) EPA ID Number

QUIKTRIP #678 (Continued) U003980389

Site Usage: Not reported Not reported Risk Type: Soil Type: Not reported GW Flow: Not reported Offsite Impact: Not reported Free Product: Not reported Drinking Water: Not reported Closed Under: Not reported

No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

SENETEK RCRA NonGen / NLR 1001482454

SE 13131 TESSON FERRY RD < 1/8 ST LOUIS, MO 63128 0.057 mi.

299 ft. Site 4 of 6 in cluster C

Relative: RCRA NonGen / NLR:
Higher Date form received by agency: 12/21/2000

Facility name: SENETEK

Actual: Facility address: 13131 TESSON FERRY RD

617 ft. STE 215

ST LOUIS, MO 63128 EPA ID: MOR000032086

Mailing address: TESSON FERRY RD

STE 215

ST LOUIS, MO 63128 FLORIS HOMAN

Contact: FLORIS HOMAN

Contact address: 13131 TESSON FERRY RD STE 215

ST LOUIS, MO 63128

Contact country: US

Contact telephone: (314) 729-1888 Contact email: Not reported

EPA Region: 07

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: SENETEK PLC
Owner/operator address: 620 AIRPARK RD
NAPA, CA 94558

Owner/operator country: Not reported
Owner/operator telephone: (314) 729-1888
Legal status: Private

Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No

EDR ID Number

MOR000032086

Direction Distance

Elevation Site Database(s) EPA ID Number

SENETEK (Continued) 1001482454

Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No

Historical Generators:

Used oil transporter:

Date form received by agency: 03/16/1999 Site name: SENETEK

Classification: Small Quantity Generator

No

Violation Status: No violations found

D14 PETRO MART #21 AST A100361830 ENE 13010 TESSON FERRY RD N/A

ENE 13010 TESSON FERRY RD < 1/8 MEHVILLE, MO 63128

0.058 mi.

308 ft. Site 1 of 3 in cluster D

Relative:

AST:

Higher Facility ID: 8607

Facility Telephone Number: 314-843-0132
Actual: Total # of dispensers: 64

633 ft. Total # of cabinets: 10

Total number of meters: 44
AST Count: 0
UST Count: 4

Product Count: 87;89;91;
DOR Tax Number: Not reported
Prof Cat: KCA;STA;
Latitude: 38.49278
Longitude: -90.38202

D15 PETRO MART #21 UST U004185912
ENE 13010 TESSON FERRY RD N/A

< 1/8 ST LOUIS, MO 63128

0.058 mi.

308 ft. Site 2 of 3 in cluster D

Relative: UST:

Higher Facility ID: ST0021840

Region: SL

 Actual:
 Easting:
 729171.811

 633 ft.
 Northing:
 4263818.19

Owner Of Geospatial Data: Hazardous Waste Program

Geospatial Data Collected By: CON_Fortin,Joel
Date GIS Data Collected: 03/29/2014
Lat/Long: Not reported
Lat/Long (dms): Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PETRO MART #21 (Continued)

U004185912

EDR ID Number

Tanks:

Owner:

Owner ID: OW02675

Owner Name: WESTERN OIL INC
Owner Address: 3473 RIDER TRAIL SOUTH
Owner City,St,Zip: EARTH CITY, MO 63045

Owner County Code:

Owner Phone:

Mail Was Not Deliverable:

Is Owner Active?:

No reported
7389900

No
Yes

Date Registration Received:

Date Record Added:

Date Record Edited:

Date Record Edited:

Not reported
1995-06-30 00:00:00
2014-04-24 00:00:00
Name of Person Editing Record:

BERVE, TRISHA

Tank ID: 1
Tank Double Wall: 0

Tank Type: Below Ground
Tank Status: Curently in use

Meet 98 Update Requirements:YesDate Tank Installed:08/11/2011Tank Material:FiberglassCode for Tank Material Manufacturer:6

Code for Tank Installer: 12

Other Type Of Tank Material: Not reported Tank Internal Protection: Not reported Other Tank Internal Protection: Not reported Not reported Tank Internal Protection Date: Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Date Tank Last Used: Not reported

Date Tank Permanently Closed/ Removed: Not reported Dt Tk Exp Brought InUse/Internal Tracking:

Tank Fees Waived:

Not reported

Expedite Closure On Tank?: Not reported Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Not reported Date Administratively Closed: Date Record Added: 05/20/2011 Date Record Edited: 05/22/2013 Person Adding/Editing Record: SESSLER, D Date Of NFA Letter: Not reported Is Tank Used For Emergency Generator: Not reported Date Closure Notice Received: Not reported Date Of Aprroval Letter: Not reported Not reported Firm Closing Tank: Date Closure Report Received: Not reported

Registration End Date: 2016-09-30 00:00:00

LockOut Flag: No

Comments: Not reported

Tank Compartment:

Tanks Use: False Compartment No: 1

10/15/2011

Direction Distance

Elevation Site Database(s) EPA ID Number

PETRO MART #21 (Continued)

U004185912

EDR ID Number

Tank Compartment PK: 41684
Tank PK: 40969
Case Number: Not reported
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 20000

Substance: Gasoline, Including Blends

Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: Not reported
Pipe Installation Date: 2011-08-30 00:00:00

Pipe System: 1
Pipe Material: 2

Pipe Material Other:
Pipe Protection:
Not reported
Not reported
Not reported
Not reported

Pipe Double Wall: -1 Spill Protection: True

Tanks Use: False Compartment No: 2 Tank Compartment PK: 41685 Tank PK: 40969 Not reported Case Number: Compartment Status: Curently in use Compartment Temp Verified Dt: Not reported Capacity: 6000

Substance: Gasoline, Including Blends

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported

Pipe Installation Date: 2011-08-30 00:00:00

Pipe System: 1
Pipe Material: 2

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: -1 Spill Protection: True

Owner:

Owner ID: OW02675

Owner Name: WESTERN OIL INC
Owner Address: 3473 RIDER TRAIL SOUTH
Owner City, St, Zip: EARTH CITY, MO 63045

Owner County Code:

Owner Phone:

Mail Was Not Deliverable:

Is Owner Active?:

Date Registration Received:

Not reported

No
Yes

Not reported

Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2014-04-24 00:00:00
Name of Person Editing Record: BERVE, TRISHA

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PETRO MART #21 (Continued)

U004185912

Tank ID: 2 Tank Double Wall: 0

Tank Type: Below Ground Tank Status: Curently in use

Meet 98 Update Requirements: Yes Date Tank Installed: 08/11/2011 Tank Material: Fiberglass Code for Tank Material Manufacturer:

Code for Tank Installer: 12 Other Type Of Tank Material: Not reported Tank Internal Protection:

Not reported Other Tank Internal Protection: Not reported Tank Internal Protection Date: Not reported Tank External Protection: Not reported Other Type Tank Extrn Protec: Not reported Tank External Protec Date: Not reported Not reported Date Tank Last Used: Date Tank Permanently Closed/ Removed: Not reported

Dt Tk Exp Brought InUse/Internal Tracking:

10/15/2011

Tank Fees Waived: Not reported Expedite Closure On Tank?: Not reported Responsible Person Expediting Closure: Not reported Temporary Status Verified Date: Not reported Admin Fee 585: Not reported Not reported Date Administratively Closed: Date Record Added: 05/20/2011 Date Record Edited: 05/22/2013 Person Adding/Editing Record: SESSLER, D Date Of NFA Letter: Not reported Is Tank Used For Emergency Generator: Not reported Date Closure Notice Received: Not reported Date Of Aprroval Letter: Not reported

Not reported Date Closure Report Received: 2016-09-30 00:00:00 Registration End Date:

Not reported

LockOut Flag:

Comments: Not reported

Tank Compartment:

Firm Closing Tank:

Tanks Use: False Compartment No: 41686 Tank Compartment PK: Tank PK: 40970 Case Number: Not reported Compartment Status: Curently in use Not reported Compartment Temp Verified Dt: Capacity: 6000

Substance: Gasoline, Including Blends

Substance Other: Not reported Hazardous Substance: Not reported Mixture: False Date of Last Use: Not reported Pipe Installation Date: 2011-08-30 00:00:00

Pipe System: Pipe Material:

Pipe Material Other: Not reported Pipe Protection: Not reported Pipe Protection Date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PETRO MART #21 (Continued)

Pipe Double Wall: -1 Spill Protection: True

Tanks Use: False Compartment No: 2 Tank Compartment PK: 41687 Tank PK: 40970 Case Number: Not reported Compartment Status: Curently in use Compartment Temp Verified Dt: Not reported 6000 Capacity: Substance: Diesel Substance Other: Not reported Hazardous Substance: Not reported Mixture: False

Date of Last Use: Not reported Pipe Installation Date: 2011-08-30 00:00:00

Pipe System: Pipe Material:

Not reported Pipe Material Other: Pipe Protection: Not reported Pipe Protection Date: Not reported

Pipe Double Wall: -1 Spill Protection: True

EDR US Hist Auto Stat 1015527865 A16

ESE 5050 GRIFFIN RD SAINT LOUIS, MO 63128 < 1/8

0.059 mi.

313 ft. Site 7 of 7 in cluster A

EDR Historical Auto Stations: Relative:

PRECISION IMPORT AUTO SERVICE Name: Higher

Year: 2003

Actual: Address: 5050 GRIFFIN RD

614 ft.

PRECISION IMPORT AUTO SERVICE Name:

2004 Year:

Address: 5050 GRIFFIN RD

Name: PRECISION IMPORT AUTO SERVICE

Year: 2005

Address: 5050 GRIFFIN RD

Name: PRECISION IMPORT AUTO SERVICE

Year: 2007

5050 GRIFFIN RD Address:

Name: PRECISION IMPORT AUTO SERVICE

Year: 2008

5050 GRIFFIN RD Address:

PRECISION IMPORT AUTO SERVICE Name:

Year:

5050 GRIFFIN RD Address:

PRECISION IMPORT AUTO SVC Name:

N/A

U004185912

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

(Continued) 1015527865

Year: 2010

5050 GRIFFIN RD Address:

Name: PRECISION IMPORT AUTO SERVICE

Year: 2011

5050 GRIFFIN RD Address:

PRECISION IMPORT AUTO SERVICE Name:

Year: 2012

Address: 5050 GRIFFIN RD

C17 **EDR US Hist Cleaners** 1014987974

13142 TESSON FERRY RD SE < 1/8 SAINT LOUIS, MO 63128

0.073 mi.

383 ft. Site 5 of 6 in cluster C

EDR Historical Cleaners: Relative:

Higher Name: **CLEANERS 21**

Year: 2001

Actual: 13142 TESSON FERRY RD Address: 615 ft.

CLEANERS 21 Name:

> Year: 2002

13142 TESSON FERRY RD Address:

Name: **CLEANERS 21**

Year: 2003

13142 TESSON FERRY RD Address:

Name: **CLEANERS 21**

Year: 2004

13142 TESSON FERRY RD Address:

Name: **CLEANERS 21**

Year: 2005

Address: 13142 TESSON FERRY RD

CLEANERS 21 Name:

Year: 2010

Address: 13142 TESSON FERRY RD

CLEANERS 21 Name:

Year: 2011

13142 TESSON FERRY RD Address:

CLEANERS 21 Name:

Year: 2012

13142 TESSON FERRY RD Address:

N/A

Map ID MAP FINDINGS

Direction Distance

Distance EDR ID Number EDevation Site EDR ID Number Database(s) EPA ID Number

C18 CLEANERS 21 DRYCLEANERS S106876782
SE 13142 TESSON FERRY RD N/A

SE 13142 TESSON FERRY RD < 1/8 SAINT LOUIS, MO 63128

0.073 mi.

383 ft. Site 6 of 6 in cluster C

Relative: Higher

615 ft.

DRYCLEANERS:
Plant Number:

Actual:

Plant Number: 189DC Number: 00783
Facility Status: Not reported
Facility Contact: Not reported
Facility Phone: 314-843-8680

Site NA: False Dry Store: True DC Plant: False Supplier: False Chlorinated: False Non Chlorinated: False Supplier ID: Not reported OUID: 3790 Party ID: 790

D19 EDR US Hist Auto Stat 1015527855
NE 5050 BUTLER HILL RD N/A

NE 5050 BUTLER HILL RD < 1/8 SAINT LOUIS, MO 63128

0.074 mi.

393 ft. Site 3 of 3 in cluster D

Relative: EDR Historical Auto Stations:

Higher Name: PRECISION IMPORT AUTO SERVICE

Year: 1999

Actual: Address: 5050 BUTLER HILL RD

620 ft.

Name: PRECISION IMPORT AUTO SERVICE

Year: 2000

Address: 5050 BUTLER HILL RD

Name: PRECISION IMPORT AUTO SERVICE

Year: 2001

Address: 5050 BUTLER HILL RD

20 EDR US Hist Cleaners SE 13148 TESSON FERRY RD

< 1/8 0.082 mi. 431 ft.

Relative: EDR Historical Cleaners:

Higher Name: DELUXE CARPET CLEANING

Year: 2002

SAINT LOUIS, MO 63128

Actual: Address: 13148 TESSON FERRY RD

615 ft.

1014987981

N/A

Map ID MAP FINDINGS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

E21 **VICKERS SERVICE STATION EDR US Hist Auto Stat** 1009106938 SSE

13177 TESSON FERRY RD N/A

ST LOUIS, MO < 1/8

0.115 mi.

605 ft. Site 1 of 3 in cluster E

EDR Historical Auto Stations: Relative:

VICKERS SERVICE STATION Higher Name:

Year: 1979

Actual: Type: **GASOLINE STATIONS** 613 ft.

E22 VICKERS RCRA NonGen / NLR 1004741895 MOR000018523 **FINDS**

13177 TESSON FERRY RD **SSE** < 1/8 MEHLVILLE, MO 63128

0.115 mi.

605 ft. Site 2 of 3 in cluster E

RCRA NonGen / NLR: Relative:

Date form received by agency: 08/24/2000 Higher Facility name: **VICKERS**

Actual: 13177 TESSON FERRY RD Facility address: 613 ft.

MEHLVILLE, MO 63128

EPA ID: MOR000018523

Mailing address: NEW HALLS FERRY RD

FLORISSANT, MO 63033

JEFFREY BIRD Contact:

Contact address: 12785 NEW HALLS FERRY RD

FLORISSANT, MO 63033

Contact country:

Contact telephone: (314) 921-6655 Not reported Contact email:

EPA Region: 07

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: **AVANTI LEASING**

Owner/operator address: 3033 E 1ST AVE STE 202

DENVER, CO 80206

Owner/operator country: Not reported Owner/operator telephone: (303) 320-0303

Legal status: Private Owner/Operator Type: Owner 01/01/0001 Owner/Op start date: Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: Nο Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

VICKERS (Continued) 1004741895

Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 10/10/1997 **VICKERS** Site name:

Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110006423520

Environmental Interest/Information System

The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

E23 **EDR US Hist Auto Stat** 1015206466

SSE 13177 TESSON FERRY RD SAINT LOUIS, MO 63128 < 1/8

0.115 mi.

605 ft. Site 3 of 3 in cluster E

EDR Historical Auto Stations: Relative:

Name: VICKERS AVANTI PETROLEUM INC Higher

Year: 2002

Actual: Address: 13177 TESSON FERRY RD

613 ft.

VICKERS AVANTI PETROLEUM INC Name:

2003 Year:

13177 TESSON FERRY RD Address:

S106877253 F24 **LAUNDRY 21 INC** DRYCLEANERS N/A

SSE 13210 TESSON FERRY RD 1/8-1/4 SAINT LOUIS, MO 63128

0.160 mi.

844 ft. Site 1 of 2 in cluster F

DRYCLEANERS: Relative: Plant Number: Higher

189-DC Number: 01686 Actual: Facility Status: Not reported

607 ft.

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

LAUNDRY 21 INC (Continued)

S106877253

Facility Contact: Not reported Facility Phone: Not reported Site NA: False Dry Store: True DC Plant: False Supplier: False Chlorinated: False Non Chlorinated: False Supplier ID: Not reported OUID: 4888 Party ID: 1888

1014988409 F25 **EDR US Hist Cleaners** N/A

13210 TESSON FERRY RD SSE 1/8-1/4 SAINT LOUIS, MO 63128

0.160 mi.

844 ft. Site 2 of 2 in cluster F

EDR Historical Cleaners: Relative:

LAUNDRY 21 Name: Higher

Year: 1999 Actual: Address: 13210 TESSON FERRY RD

607 ft.

Name: LAUNDRY 21 Year: 2000

Address: 13210 TESSON FERRY RD

Name: LAUNDRY 21

2001 Year:

Address: 13210 TESSON FERRY RD

Name: LAUNDRY 21

Year: 2002

13210 TESSON FERRY RD Address:

Name: LAUNDRY 21 & DRY CLEANERS CORP

Year: 2004

13210 TESSON FERRY RD Address:

LAUNDRY 21 & DRY CLEANERS Name:

Year: 2005

Address: 13210 TESSON FERRY RD

Name: LAUNDRY 21 & DRY CLEANERS CORP

Year: 2007

Address: 13210 TESSON FERRY RD

LAUNDRY 21 Name:

Year: 2008

Address: 13210 TESSON FERRY RD

LAUNDRY21 Name:

Year: 2009

Address: 13210 TESSON FERRY RD

LAUNDRY 21 & DRY CLEANERS Name:

2010 Year:

Address: 13210 TESSON FERRY RD

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

(Continued) 1014988409

Name: LAUNDRY 21 & DRY CLEANERS

2011 Year:

13210 TESSON FERRY RD Address:

Name: LAUNDRY 21 & DRY CLEANERS

Year: 2012

13210 TESSON FERRY RD Address:

AUTOMOTIVE SVCS 26 RCRA NonGen / NLR 1000334985 **ENE** MOD094397155

1/8-1/4 0.182 mi. 963 ft.

4936 BUTLER HILL RD **ST LOUIS, MO 63128**

Relative: Higher

RCRA NonGen / NLR:

Contact:

Date form received by agency: 03/08/2005

Facility name: **AUTOMOTIVE SVCS** Actual: Facility address: 4936 BUTLER HILL RD 632 ft.

ST LOUIS, MO 63128 EPA ID: MOD094397155

BUTLER HILL RD Mailing address:

ST LOUIS, MO 63128 JOHN TREPPZER Contact address:

4936 BUTLER HILL RD ST LOUIS, MO 63128

Contact country: US

Contact telephone: (314) 849-1209 Contact email: Not reported

EPA Region: 07

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

JOHN TREPPLER Owner/operator name: Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/01/0001 Owner/Op end date: Not reported

JOHN TREPPLER Owner/operator name: Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Map ID MAP FINDINGS
Direction

Distance Elevation S

tion Site Database(s) EPA ID Number

AUTOMOTIVE SVCS (Continued)

1000334985

EDR ID Number

Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 01/15/1988

Site name: AUTOMOTIVE SVCS
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

 ${\sf KETONE}, {\sf CARBON} \ {\sf DISULFIDE}, \ {\sf ISOBUTANOL}, \ {\sf PYRIDINE}, \ {\sf BENZENE},$

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Count: 0 records. ORPHAN SUMMARY

City EDR ID Site Name Site Address Zip Database(s)

NO SITES FOUND

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013 Source: EPA
Date Data Arrived at EDR: 11/11/2013 Telephone: N/A

Date Made Active in Reports: 01/28/2014 Last EDR Contact: 09/19/2014

Number of Days to Update: 78 Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013 Source: EPA
Date Data Arrived at EDR: 11/11/2013 Telephone: N/A

Number of Days to Update: 78 Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Source: EPA

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 01/28/2014

Number of Days to Update: 78

Source: EPA Telephone: N/A

Last EDR Contact: 09/19/2014

Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 08/28/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 07/08/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 07/08/2014

Next Scheduled EDR Contact: 10/20/2014 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 08/28/2014

Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/10/2014 Date Data Arrived at EDR: 07/02/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 78

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014 Date Data Arrived at EDR: 07/02/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/10/2014 Date Data Arrived at EDR: 07/02/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014 Date Data Arrived at EDR: 07/02/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/23/2014 Date Data Arrived at EDR: 07/15/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 65

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/08/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/23/2014 Date Data Arrived at EDR: 07/15/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 65

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/08/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014 Date Data Arrived at EDR: 05/30/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 18

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 08/14/2014

Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 66

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 07/03/2014

Next Scheduled EDR Contact: 07/14/2014 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/23/2014 Date Data Arrived at EDR: 06/25/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 21

Source: Department of Natural Resources

Telephone: 573-751-1990 Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/15/2014 Data Release Frequency: Quarterly

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includeds the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 06/17/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 29

Source: Department of Natural Resources

Telephone: 573-751-3176 Last EDR Contact: 08/28/2014

Next Scheduled EDR Contact: 07/02/5007 Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/18/2014 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 07/17/2014

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: 573-751-5401 Last EDR Contact: 08/15/2014

Next Scheduled EDR Contact: 12/01/2014 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/03/2014 Date Data Arrived at EDR: 06/17/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 29

Source: Department of Natural Resources

Telephone: 573-751-0135 Last EDR Contact: 09/17/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Semi-Annually

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tanks.

Date of Government Version: 06/03/2014 Date Data Arrived at EDR: 06/17/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 29

Source: Department of Natural Resources

Telephone: 573-751-6822 Last EDR Contact: 09/17/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/20/2014 Date Data Arrived at EDR: 06/10/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 73

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/28/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013 Date Data Arrived at EDR: 03/01/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/04/2014 Date Data Arrived at EDR: 08/05/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 17

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/28/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/13/2014 Date Data Arrived at EDR: 08/15/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 7

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 184

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/01/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014 Date Data Arrived at EDR: 08/12/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/22/2014

Next Scheduled EDR Contact: 08/11/2014 Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/14/2014 Date Data Arrived at EDR: 05/15/2014 Date Made Active in Reports: 07/15/2014

Number of Days to Update: 61

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/20/2014 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/22/2014 Date Data Arrived at EDR: 08/22/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 27

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/28/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/03/2014 Date Data Arrived at EDR: 06/17/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 29

Source: Department of Natural Resources

Telephone: 573-751-0135 Last EDR Contact: 09/17/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tanks Registered Aboveground Storage Tanks.

> Date of Government Version: 08/26/2014 Date Data Arrived at EDR: 08/27/2014 Date Made Active in Reports: 08/29/2014

Number of Days to Update: 2

Source: Department of Agriculture Telephone: 573-751-7062 Last EDR Contact: 08/26/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 01/27/2014

Number of Days to Update: 271

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/01/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014 Date Data Arrived at EDR: 08/12/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/22/2014

Next Scheduled EDR Contact: 08/11/2014 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/04/2014 Date Data Arrived at EDR: 08/05/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 17

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/28/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 07/25/2014 Date Data Arrived at EDR: 07/28/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 25

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/20/2014 Date Data Arrived at EDR: 08/22/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 27

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/28/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/13/2014 Date Data Arrived at EDR: 08/15/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 7

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/14/2014 Date Data Arrived at EDR: 08/15/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 7

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/20/2014 Date Data Arrived at EDR: 06/10/2014 Date Made Active in Reports: 08/15/2014

Number of Days to Update: 66

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 07/08/2014

Next Scheduled EDR Contact: 10/27/2014 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 07/21/2014 Date Data Arrived at EDR: 08/22/2014 Date Made Active in Reports: 08/28/2014

Number of Days to Update: 6

Source: Department of Natural Resources

Telephone: 573-751-3176 Last EDR Contact: 08/22/2014

Next Scheduled EDR Contact: 12/01/2014 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/30/2014 Date Data Arrived at EDR: 07/01/2014 Date Made Active in Reports: 08/15/2014

Number of Days to Update: 45

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/01/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Varies

VCP: Sites Participating in the Voluntary Cleanup Program Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 07/21/2014 Date Data Arrived at EDR: 08/22/2014 Date Made Active in Reports: 08/28/2014

Number of Days to Update: 6

Source: Department of Natural Resources

Telephone: 573-526-8913 Last EDR Contact: 08/22/2014

Next Scheduled EDR Contact: 12/01/2014 Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 07/21/2014 Date Data Arrived at EDR: 08/22/2014 Date Made Active in Reports: 08/28/2014

Number of Days to Update: 6

Source: Department of Natural Resources

Telephone: 573-526-8913 Last EDR Contact: 08/22/2014

Next Scheduled EDR Contact: 12/01/2014 Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 07/03/2014 Date Made Active in Reports: 07/28/2014

Number of Days to Update: 25

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 09/23/2014

Next Scheduled EDR Contact: 01/05/2015 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 07/25/2014

Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: No Update Planned

HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005 Date Data Arrived at EDR: 07/19/2006 Date Made Active in Reports: 08/18/2006

Number of Days to Update: 30

Source: Department of Natural Resources

Telephone: 573-751-5401 Last EDR Contact: 01/12/2009

Next Scheduled EDR Contact: 04/13/2009 Data Release Frequency: No Update Planned

SWRCY: Solid Waste Recycling Facilities A listing of recycling center locations.

> Date of Government Version: 08/16/2014 Date Data Arrived at EDR: 08/19/2014 Date Made Active in Reports: 09/08/2014

Number of Days to Update: 20

Source: Department of Natural Resources

Telephone: 573-526-3944 Last EDR Contact: 09/02/2014

Next Scheduled EDR Contact: 12/15/2014 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 08/01/2014

Next Scheduled EDR Contact: 11/17/2014 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 07/15/2014

Number of Days to Update: 25

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 09/03/2014

Next Scheduled EDR Contact: 12/15/2014 Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 06/23/2014 Date Data Arrived at EDR: 06/25/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 21

Source: Department of Natural Resources

Telephone: 573-522-3710 Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/15/2014 Data Release Frequency: Annually

CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 05/29/2014 Date Data Arrived at EDR: 06/17/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 29

Source: Department of Natural Resources

Telephone: 573-751-3443 Last EDR Contact: 09/17/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 07/15/2014

Number of Days to Update: 25

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 09/03/2014

Next Scheduled EDR Contact: 12/15/2014 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/2014 Date Data Arrived at EDR: 07/01/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 79

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 07/01/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 05/29/2014 Date Data Arrived at EDR: 06/17/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 29

Source: Department of Natural Resources

Telephone: 573-526-3349 Last EDR Contact: 09/17/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/10/2014 Date Data Arrived at EDR: 07/02/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 08/06/2014

Next Scheduled EDR Contact: 11/17/2014 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 10/27/2014 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 8

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 09/10/2014

Next Scheduled EDR Contact: 12/22/2014

Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 01/24/2014 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 06/30/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013 Date Data Arrived at EDR: 12/12/2013 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 74

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/09/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 08/20/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/30/2014 Date Data Arrived at EDR: 03/05/2014 Date Made Active in Reports: 07/15/2014

Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 09/04/2014

Next Scheduled EDR Contact: 12/15/2014 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/31/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 44

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 08/29/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 06/25/2014

Next Scheduled EDR Contact: 10/06/2014 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the

Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/19/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 08/19/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014 Date Data Arrived at EDR: 05/16/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 10/09/2014

Next Scheduled EDR Contact: 10/27/2014 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013 Date Data Arrived at EDR: 07/17/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 107

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 10/27/2014 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/08/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2014 Date Data Arrived at EDR: 07/10/2014 Date Made Active in Reports: 07/28/2014

Number of Days to Update: 18

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/10/2014

Next Scheduled EDR Contact: 10/20/2014 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013 Date Data Arrived at EDR: 02/27/2014 Date Made Active in Reports: 03/12/2014

Number of Days to Update: 13

Source: EPA

Telephone: (913) 551-7003 Last EDR Contact: 09/10/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 05/23/2014 Date Made Active in Reports: 07/28/2014

Number of Days to Update: 66

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013

Number of Days to Update: 52

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 08/29/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 01/09/2014 Date Data Arrived at EDR: 01/10/2014 Date Made Active in Reports: 01/14/2014

Number of Days to Update: 4

Source: Department of Natural Resources

Telephone: 573-368-2183 Last EDR Contact: 08/27/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Varies

DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 06/16/2014 Date Data Arrived at EDR: 06/16/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 30

Source: Department of Natural Resources

Telephone: 573-526-8913 Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Varies

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 06/11/2014 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 07/17/2014

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: 573-751-3176 Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Semi-Annually

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 07/07/2014 Date Data Arrived at EDR: 07/07/2014 Date Made Active in Reports: 07/21/2014

Number of Days to Update: 14

Source: Department of Natural Resources

Telephone: 573-751-7023 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/20/2014 Data Release Frequency: Varies

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 06/19/2014 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 07/16/2014

Number of Days to Update: 26

Source: Department of Natural Resources

Telephone: 573-751-4817 Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/29/2014 Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 10/27/2014 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 07/25/2014

Next Scheduled EDR Contact: 11/03/2014

Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 08/15/2014

Next Scheduled EDR Contact: 11/24/2014 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014 Date Data Arrived at EDR: 06/12/2014 Date Made Active in Reports: 07/28/2014

Number of Days to Update: 46

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 07/01/2014

Next Scheduled EDR Contact: 10/20/2014 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri?s other state response programs.

Date of Government Version: 07/21/2014 Date Data Arrived at EDR: 08/07/2014 Date Made Active in Reports: 08/29/2014

Number of Days to Update: 22

Source: Department of Natural Resources

Telephone: 573-751-3043 Last EDR Contact: 08/05/2014

Next Scheduled EDR Contact: 11/17/2014 Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013 Date Data Arrived at EDR: 07/03/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 72

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 07/01/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 10/27/2014

Data Release Frequency: N/A

MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 10/24/2008 Date Data Arrived at EDR: 12/17/2012 Date Made Active in Reports: 12/21/2012

Number of Days to Update: 4

Source: Department of Natural Resources

Telephone: 573-751-4041 Last EDR Contact: 07/25/2014

Next Scheduled EDR Contact: 11/03/2014 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 03/14/2014 Date Data Arrived at EDR: 06/11/2014 Date Made Active in Reports: 07/28/2014

Number of Days to Update: 47

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 09/10/2014

Next Scheduled EDR Contact: 12/22/2014

Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 10/27/2014 Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 30

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 06/25/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/23/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 30

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 06/25/2014

Next Scheduled EDR Contact: 10/13/2014 Data Release Frequency: Annually

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 06/09/2014 Date Data Arrived at EDR: 06/13/2014 Date Made Active in Reports: 07/14/2014

Number of Days to Update: 31

Source: Department of Natural Resources

Telephone: 573-751-3553 Last EDR Contact: 09/08/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/19/2014 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 07/28/2014

Number of Days to Update: 38

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 08/14/2014

Next Scheduled EDR Contact: 12/01/2014 Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 06/10/2014 Date Data Arrived at EDR: 06/12/2014 Date Made Active in Reports: 07/14/2014

Number of Days to Update: 32

Source: Department of Natural Resources

Telephone: 573-751-5401 Last EDR Contact: 09/10/2014

Next Scheduled EDR Contact: 12/22/2014 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 08/01/2014

Next Scheduled EDR Contact: 11/10/2014 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 08/15/2014

Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 07/08/2014 Date Data Arrived at EDR: 07/10/2014 Date Made Active in Reports: 08/05/2014

Number of Days to Update: 26

Source: Department of Natural Resources

Telephone: 573-526-1825 Last EDR Contact: 07/02/2014

Next Scheduled EDR Contact: 10/20/2014 Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/15/2014 Number of Days to Update: 198

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 08/19/2014

Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 05/01/2014 Date Data Arrived at EDR: 05/07/2014 Date Made Active in Reports: 06/10/2014

Number of Days to Update: 34

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 08/07/2014

Next Scheduled EDR Contact: 11/17/2014 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/21/2014 Date Made Active in Reports: 08/25/2014

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 11/03/2014 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/15/2014 Date Made Active in Reports: 08/13/2014

Number of Days to Update: 29

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 08/26/2014

Next Scheduled EDR Contact: 12/08/2014 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 08/07/2014

Number of Days to Update: 48

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Health & Senior Services

Telephone: 573-751-2450

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

METLIFE - NGA 13045 TESSON FERRY ROAD SAINT LOUIS, MO 63128

TARGET PROPERTY COORDINATES

Latitude (North): 38.4925 - 38° 29' 33.00" Longitude (West): 90.3861 - 90° 23' 9.96"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 727973.9 UTM Y (Meters): 4263492.5

Elevation: 560 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38090-D4 MAXVILLE, MO

Most Recent Revision: 1982

North Map: 38090-E4 KIRKWOOD, MO

Most Recent Revision: 1993

Northeast Map: 38090-E3 WEBSTER GROVES, MO IL

Most Recent Revision: 1998

East Map: 38090-D3 OAKVILLE, MO IL

Most Recent Revision: 1998

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

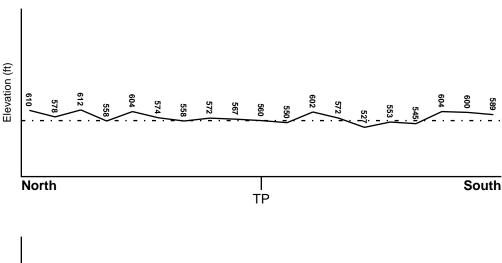
TOPOGRAPHIC INFORMATION

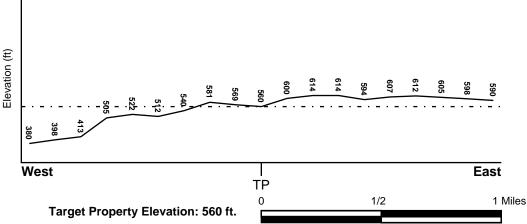
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County
ST LOUIS, MO

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 29189C0385H -

29189C0385H - FEMA Q3 Flood data

Additional Panels in search area: 2

29189C0294H - FEMA Q3 Flood data 29189C0315H - FEMA Q3 Flood data 29189C0405H - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

MAXVILLE

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

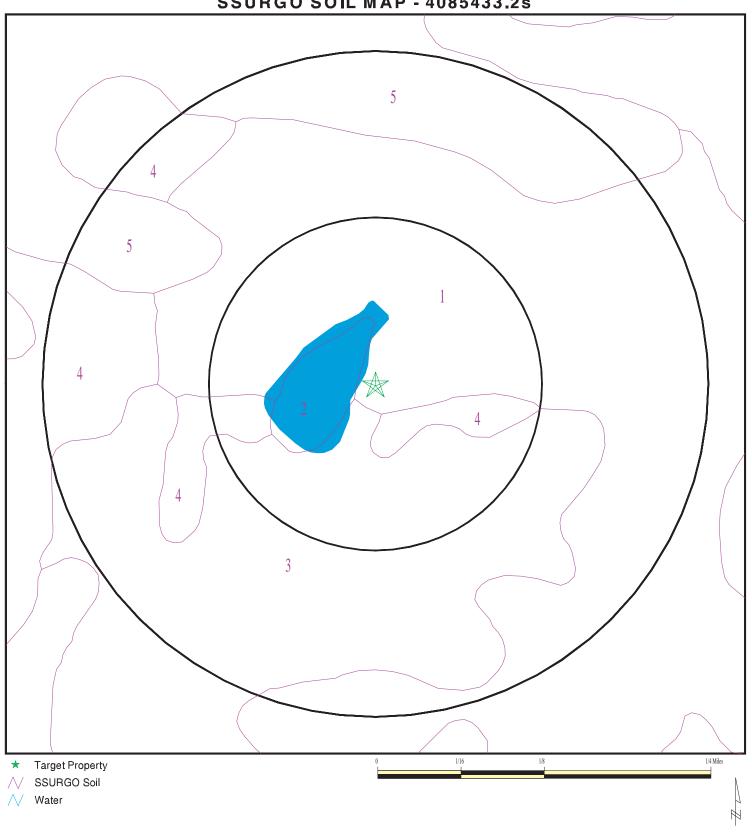
Era: Paleozoic Category: Stratified Sequence

System: Mississippian
Series: Meramecian Series

Code: M2 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4085433.2s



LAT/LONG:

SITE NAME: Metlife - NGA ADDRESS: 13045 Tesson Ferry Road

Saint Louis MO 63128 38.4925 / -90.3861

CLIENT: CH2M Hill, Inc. CONTACT: Jesse A. Brown INQUIRY #: 4085433.2s

DATE: September 26, 2014 5:29 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil I	Map I	D: 1
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Soil Component Name: Urban land

Soil Surface Texture:

Hydrologic Group: Not reported

Soil Drainage Class: Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture:

Hydrologic Group: Not reported

Soil Drainage Class: Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Crider

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Boundary				Classification	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	5 inches	42 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	42 inches	59 inches	silty clay	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5

Soil Map ID: 4

Soil Component Name: Menfro

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Boundary Classification			ication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	12 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Layer Information							
	Bou	ındary	Classification		Saturated hydraulic		
Layer	er Upper Lower Soil Texture Class AAS	AASHTO Group	Unified Soil				
2	12 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	16 inches	55 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
4	55 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

Soil Map ID: 5

Soil Component Name: Menfro

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	Information			
Boundary		Boundary		Classification		Saturated hydraulic	
Layer Upper Lower	r Upper Lower Soil Texture Clas	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec		
1	0 inches	12 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	12 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	16 inches	55 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
4	55 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000693855	1/8 - 1/4 Mile ENE
B6	USGS40000693843	1/4 - 1/2 Mile West
7	USGS40000693888	1/4 - 1/2 Mile NNW
C8	USGS40000693814	1/4 - 1/2 Mile SW
D10	USGS40000693813	1/4 - 1/2 Mile SE
G16	USGS40000693805	1/2 - 1 Mile SE
F17	USGS40000693911	1/2 - 1 Mile NNE
H21	USGS40000693847	1/2 - 1 Mile East
23	USGS40000693856	1/2 - 1 Mile West
124	USGS40000693880	1/2 - 1 Mile WNW
H25	USGS40000693849	1/2 - 1 Mile East
J27	USGS40000693870	1/2 - 1 Mile WNW
H28	USGS40000693842	1/2 - 1 Mile East
K30	USGS40000693806	1/2 - 1 Mile WSW
K32	USGS40000693798	1/2 - 1 Mile WSW
L35	USGS40000693944	1/2 - 1 Mile NW
M38	USGS40000693846	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
N- DWO O		

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	FROM TP
1	MOLOG1000016794	1/8 - 1/4 Mile NW
A3	MOLOG1000016786	1/4 - 1/2 Mile ENE
4	MOLOG1000016711	1/4 - 1/2 Mile WSW
B5	MOLOG1000016741	1/4 - 1/2 Mile West

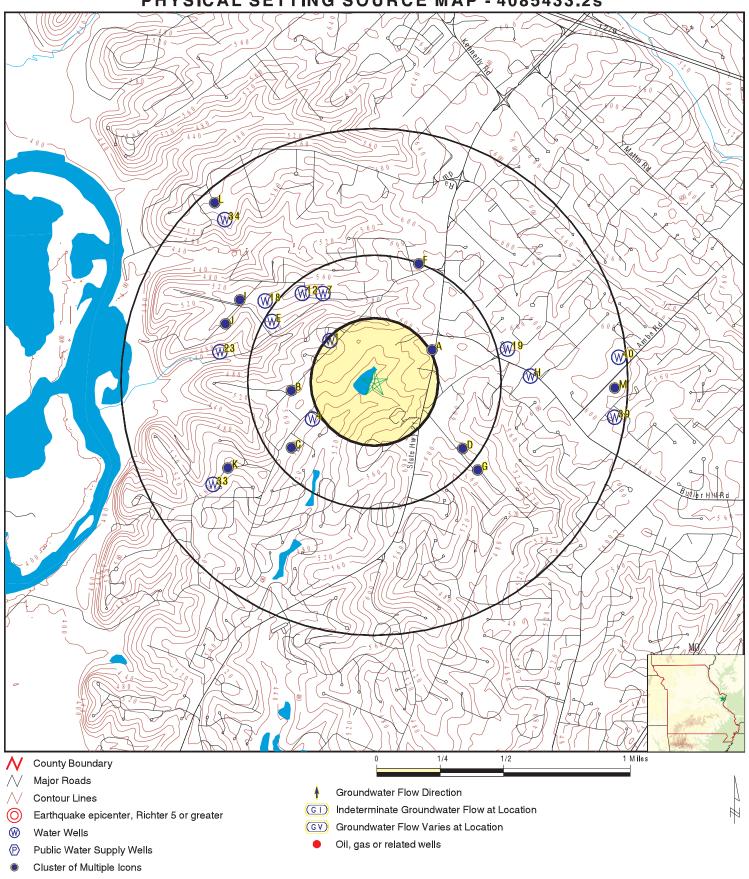
LOCATION

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

	LOCATION
WELL ID	FROM TP
MOLOG1000016677	1/4 - 1/2 Mile SW
MOLOG1000016675	1/4 - 1/2 Mile SE
MOLOG1000016837	1/4 - 1/2 Mile NW
MOLOG1000016804	1/4 - 1/2 Mile WNW
MOLOG1000016869	1/4 - 1/2 Mile NNE
MOLOG1000016819	1/4 - 1/2 Mile NW
MOLOG1000016828	1/2 - 1 Mile NW
MOLOG1000016785	1/2 - 1 Mile ENE
MOLOG1000016659	1/2 - 1 Mile SE
MOLOG1000016827	1/2 - 1 Mile WNW
MOLOG1000016813	1/2 - 1 Mile WNW
MOLOG1000016669	1/2 - 1 Mile WSW
MOLOG1000016664	1/2 - 1 Mile WSW
MOLOG1000016640	1/2 - 1 Mile WSW
MOLOG1000016911	1/2 - 1 Mile NW
MOLOG1000016742	1/2 - 1 Mile East
MOLOG1000016932	1/2 - 1 Mile NW
MOLOG1000016715	1/2 - 1 Mile East
MOLOG1000016779	1/2 - 1 Mile East
	MOLOG1000016677 MOLOG1000016675 MOLOG1000016837 MOLOG1000016804 MOLOG1000016869 MOLOG1000016819 MOLOG1000016828 MOLOG1000016785 MOLOG1000016659 MOLOG1000016659 MOLOG1000016664 MOLOG1000016640 MOLOG1000016911 MOLOG1000016932 MOLOG1000016932 MOLOG1000016715

PHYSICAL SETTING SOURCE MAP - 4085433.2s



SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis MO 63128 LAT/LONG: 38.4925 / -90.3861 CLIENT: CH2M Hill, Inc. CONTACT: Jesse A. Brown INQUIRY#: 4085433.2s

DATE: September 26, 2014 5:29 pm

Map ID Direction Distance

Elevation Database **EDR ID Number** NW **MO WELLS** MOLOG1000016794 1/8 - 1/4 Mile Higher Υ ld: 011214 Located: 24k Notenough: Not Reported Scale: **MISSOURI** Locator: Michael Lemon - Interpolated Stname: Stabbrev: ST. LOUIS MO County: Utm x: 727684.68758 Utm y: 4263746.31268 Latitude: 38.49486 Longitude: -90.38933 Qtr3: NW Qtr2: SW Qtr1: NE Section: 6 Tnsp: 43 Tnspdir: Not Reported Rng: Rngdir: Ε 727545 Plssx: 4263534 Plssy: Location p: 59 Elev: 548 Idnum: 11214 Swl: 25 Quadrangle: **MAXVILLE** Site id: MOLOG1000016794 Header Information: 011214 Well type: Private Well GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS Agencyname: 189 Stname: **MISSOURI** Fips: Stabbrev: MO Qtr3: NW Qtr2: SW Qtr1: NE Section: 06 Tnsp: 43 Tnspdir: 06 Ν Rng: Rngdir: Ε Latitude: 38.49486 -90.38933 Longitude: 727684.68758 Utm x: 4263746.31268 Utm y: MAXVILLE Ohio code: 38090D4 Quadmap na: Llmeas: Scale: 24k Locator: Interpolated Typelog1: Typelog2: Not Reported Typelog3: Not Reported Roberts, D. Ownerind: Owner: Not Reported Driller: Leasenam: **Ehlers** Drldate: 1947/10/ Permit: Not Reported Logdate: 1950/02/02 McNeal Logger:

Elev: 548

Elevbase: S Prodyld:

Gpmcfs: G Depthbed: 40

Sampsav: 0 Swla: 25

Swlb: Not Reported Water at: Not Reported

Totdepth: 65 Formation: SALEM FORMATION

Formation1: SALEM FORMATION

Intcrdtp: 0

7

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: ON BAVER RD, 2 MI N OF HWY 21; ELEVATION MAY BE WRONG Remarks: C total: C plugind: Ν C remarks: Not Reported Construction Information: Well type: 011214 Private Well ld: 194700 Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 43 Cas1diam: 0 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Ν Szcashol: 0 Szbelcas: 0 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 Pumptdh: 0 Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: SALEM FORMATION SALEM FORMATION Formation1: Strata Information: 011214 Stratordr: 0 ld: Fmtop: Fmbot: 40 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin: Secocc:

Not Reported

Minrmin:

Stratordr:

31000

Minrocc:

Rmk20: Not Reported

Strata Information:

011214 ld: Fmtop: 40

Fmbot: 65

Formation: SALEM FORMATION

LIMESTONE Primlith:

CHERT DOLOMITE Minlith: Seclith:

Not Reported Primmin:

Primocc: Secmin: Not Reported Secocc: 0 Minrmin: Not Reported

Minrocc: 0 Rmk20: Not Reported

Strata Information:

011214 31000 ld: Stratordr:

Fmtop: 40 Fmbot:

SALEM FORMATION Formation:

LIMESTONE Primlith:

DOLOMITE CHERT Seclith: Minlith:

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc: 0

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 011214 Stratordr: 99900

Fmtop: Fmbot: 65

TOTAL DEPTH Formation:

Not Reported Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported 0 Primocc:

Secmin:

Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

USGS40000693855 **FED USGS**

1/8 - 1/4 Mile Higher

TC4085433.2s Page A-14

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382939090225501 Monloc name: T43N R06E 06ADD1

Monloc type: Well

Monloc desc: Not Reported Huc code: 07140102

Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4942203 Latitude: -90.3820628 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 628 Vert measure units: 628 Vert measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation

Aquifer type: Not Reported

Construction date: 19360000 Welldepth: 341

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to te Surface Sealevel

Date Surface Sealevel

1936-01-01 125

A3
ENE MO WELLS MOLOG1000016786

1/4 - 1/2 Mile Higher

Id:003514Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Ottob
 728348.18771

 Utm x:
 728348.18771

 Utm y:
 4263720.18771

 Latitude:
 38.49446

 Longitude:
 -90.38174

 Qtr3:
 E2

Qtr3: E2 Qtr2: SE

 Qtr1:
 NE

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

 Rng:
 6

 Rngdir:
 E

 Plssx:
 727545

 Plssy:
 4263534

 Location p:
 59

 Elev:
 635

 Idnum:
 3514

06

125 Swl:

Quadrangle: **MAXVILLE** Site id: MOLOG1000016786

Header Information:

Private Well 003514 Well type: GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS Fips: 189 Stname: **MISSOURI** Stabbrev: MO Qtr3: E2 SE ΝE Qtr2: Qtr1: 43

Section: 06 Tnsp: Tnspdir: Ν Rng:

Rngdir: Ε

Latitude: 38.49446 Longitude: -90.38174 728348.18771 Utm x: Utm y: 4263720.18771

38090D4 Quadmap na: MAXVILLE Ohio code: 24k Llmeas: D Scale: Typelog1: D Locator: Interpolated Typelog2: Not Reported Typelog3:

Ownerind: Owner: Daffern, Mrs. Addie Leasenam: Not Reported Driller: Flamm, Otto

1936/01/14 Drldate: Permit: Not Reported Not Reported Grohskopf / Haseltine Logdate: Logger:

Elev: 635

Elevbase: S Prodyld: Not Reported

Gpmcfs: Not Reported

Depthbed: 110

Sampsav: 0 Swla: 125

Not Reported Swlb: Water at: Not Reported

Totdepth: 341 Formation: SALEM FORMATION

WARSAW FORMATION Formation1:

0 Intcrdtp: Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Reldate: Not Reported Confind: Probind2: Not Reported Probind1: Not Reported Probind3: Not Reported Additional: Not Reported Not Reported Add databa: Alagncy1: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Alnum2: Add data 2: Not Reported

Add data 3: Not Reported Rmkind: Ν JCT OF TESSON FERRY & BUTLER HILL RDS Remarks: C total: C plugind: Ν

C remarks: Not Reported

Construction Information:

Private Well Well type: Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: 193601 Plugind: Not Reported Ν Dateplug: Casemat1: Not Reported Casemat2: Not Reported

Cas1dpth: 50 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0

Cas4dpth: 0 Cas4diam: 0

Inout1: 0 Typgrt1: Not Reported Not Reported Not Reported Typgrt2: Typgrt3: Not Reported Mthgrout: Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported

Dateabnd: Not Reported

 Plgdpt1b:
 0

 Plgdpt1t:
 0

 Multcase:
 N

 Szcashol:
 0

 Szbelcas:
 0

 Sizscrn:
 0

 Slotsize:
 0

 Lenscrn:
 0

Typescrn: Not Reported Typedev: Not Reported

Typepump: Not Reported

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Typecomp: Not Reported

Perfintt: 0 Perfintb: 0

Oilprod: Not Reported Gasprod: Not Reported
Tubepres: Not Reported Remarks: Not Reported
Other data: Not Reported Formation: SALEM FORMATION

Formation1: WARSAW FORMATION

Strata Information:

Id: 003514 Stratordr: 0

Fmtop: 0 Fmbot: 110

Formation : NO SAMPLES

Primlith: Not Reported
Seclith: Not Reported Minlith:

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003514 Stratordr: 28400

Fmtop: 110 Fmbot: 341

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Not Reported

Stratordr:

30800

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003514 Fmtop: 110

Fmbot: 341

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 003514 Stratordr: 31000

Fmtop: 110 Fmbot: 250

Formation: SALEM FORMATION

Not Reported

Primlith: LIMESTONE

Seclith: SHALE Minlith: DOLOMITE

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003514 Stratordr: 31000

Fmtop: 110 Fmbot: 250

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: SHALE Minlith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003514 Stratordr: 31200

Fmtop: 250 Fmbot: 341

Formation: WARSAW FORMATION

Primlith: SHALE

Seclith: CHERT Minlith: LIMESTONE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Stratordr:

Minlith:

99900

Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

003514 ld: Fmtop: 341

Fmbot: 341

Formation: TOTAL DEPTH Not Reported Primlith:

Not Reported Seclith:

Not Reported Primmin:

Primocc:

Secmin: Not Reported Secocc: 0 Minrmin: Not Reported

Minrocc: 0 Rmk20: Not Reported

wsw **MO WELLS** MOLOG1000016711

1/4 - 1/2 Mile Lower

> Υ 011211 Located: ld: Notenough: Not Reported Scale: 24k MISSOURI Locator: Michael Lemon - Interpolated Stname: ST. LOUIS County:

Stabbrev: MO

Utm x: 727587.87529 4263246.28092 Utm y: Latitude: 38.49038 Longitude: -90.3906

SE NE Qtr2: Qtr3:

SW Qtr1: Section: 6 Tnsp: 43

Not Reported Tnspdir:

Rng: 6 Е Rngdir: Plssx: 727545 Plssy: 4263534 59 Location p: 556 Elev: Idnum: 11211 Swl:

Quadrangle: MAXVILLE Site id: MOLOG1000016711

Header Information:

Private Well Well type: GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS MISSOURI 189 Stname: Fips: MO Qtr3: SE Stabbrev: SW

NE Qtr2: Qtr1: Section: 06 Tnsp: Tnspdir: Ν Rng:

Е Rngdir: Latitude: 38.49038 Longitude: -90.3906

43

06

Utm x: 727587.87529 Utm y: 4263246.28092

Quadmap na: MAXVILLE Ohio code: 38090D4 Llmeas: D Scale: 24k Locator: Interpolated Typelog1:

Typelog3: Typelog2: Not Reported Not Reported Ownerind: Owner: Roberts, D. Leasenam: Not Reported Driller: **Ehlers** 1947/10/ Permit: Not Reported Drldate: 1950/02/01 McNeal Logdate: Logger:

Elev: 556

Elevbase: S Prodyld: 1

Gpmcfs: G Depthbed: 35

Not Reported Sampsav: 0 Swla:

Swlb: Not Reported Water at: Not Reported

Formation: SALEM FORMATION Totdepth: 200

WARSAW FORMATION Formation1:

Intcrdtp: 0 Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Probind1: Not Reported Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported

Not Reported Add data 2: Not Reported Alnum2: Add data 3: Not Reported Rmkind:

ON BAVER RD Remarks:

C total: C plugind: Not Reported

C remarks: Not Reported

Strata Information: ld: 011211 Stratordr:

Fmtop: Fmbot: 35

NO SAMPLES Formation: Primlith: Not Reported

Minlith: Seclith: Not Reported Not Reported

Primmin: Not Reported

0 Primocc:

Secmin: Not Reported 0

Secocc: Minrmin: Not Reported

Minrocc:

Not Reported Rmk20:

Strata Information:

011211 Stratordr: 0

Fmtop: 40 Fmbot: 50

NO SAMPLES Formation:

Not Reported Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc:

Not Reported Minrmin:

0

Minrocc: Rmk20: Not Reported Strata Information: 011211 0 Stratordr: ld: Fmtop: 55 Fmbot: 70 Formation: NO SAMPLES Not Reported Primlith: Not Reported Minlith: Not Reported Seclith: Primmin: Not Reported Primocc: Secmin: Not Reported Secocc: 0 Not Reported Minrmin: Minrocc: 0 Rmk20: Not Reported Strata Information: 28400 ld: 011211 Stratordr: Fmtop: 35 Fmbot: MISSISSIPPIAN SYSTEM Formation: Not Reported Primlith: Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: Not Reported Secmin: Secocc: Not Reported Minrmin: Minrocc: Rmk20: Not Reported Strata Information: ld: 011211 Stratordr: 30800 Fmtop: 35 200 Fmbot: MERAMECIAN SERIES Formation: Not Reported Primlith: Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported 0 Primocc: Secmin: Not Reported Secocc: 0 Minrmin: Not Reported Minrocc: Not Reported Rmk20: Strata Information: 011211 Stratordr: 31000 Fmtop: 35 Fmbot: 160 SALEM FORMATION Formation: LIMESTONE Primlith: Seclith: DOLOMITE Minlith: CHERT Primmin: Not Reported

Primocc:

Seconin: Secocc:

Minrmin:

0

Not Reported

Not Reported

Stratordr:

31000

Minrocc:

Rmk20: Not Reported

Strata Information:

011211 ld: Fmtop: 35

Fmbot: 160

Formation: SALEM FORMATION

LIMESTONE Primlith:

CHERT DOLOMITE Minlith: Seclith:

Primmin: Not Reported Primocc:

Secmin: Not Reported Secocc: 0 Not Reported Minrmin: Minrocc: 0 Rmk20: Not Reported

Strata Information:

011211 31200 ld: Stratordr:

Fmtop: 160 Fmbot:

WARSAW FORMATION Formation:

Primlith: SHALE DOLOMITE Seclith:

Minlith: Not Reported

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc: 0

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 011211 Stratordr: 99900

Fmtop: 200 Fmbot: 200

TOTAL DEPTH Formation: Not Reported Primlith:

Seclith: Not Reported Minlith:

Primmin: Not Reported 0 Primocc:

Secmin:

Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

MO WELLS MOLOG1000016741 West

1/4 - 1/2 Mile Higher

TC4085433.2s Page A-22

Not Reported

Id:022971Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Utm x:
 727467.25045

 Utm y:
 4263393.78105

 Latitude:
 38.49174

 Longitude:
 -90.39194

Qtr3: NW Qtr2: NE

 Qtr1:
 SW

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Ε Rngdir: Plssx: 727545 Plssy: 4263534 Location p: 59 561 Elev: Idnum: 22971 Swl: 100

Quadrangle: MAXVILLE Site id: MOLOG1000016741

Header Information:

Id:022971Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS) County:ST. LOUISFips:189Stname:MISSOURIStabbrev:MOQtr3:NW

 Stabbrev:
 MO
 Qtr3:
 NW

 Qtr2:
 NE
 Qtr1:
 SW

 Section:
 06
 Tnsp:
 43

 Tnspdir:
 N
 Rng:
 06

Rngdir: E

Latitude: 38.49174
Longitude: -90.39194
Utm x: 727467.25045
Utm y: 4263393.78105

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Not Reported Typelog2: Not Reported Typelog3: Ownerind: Owner: McMasters, Hugh Not Reported Weber Company Leasenam: Driller: 1964/07/22 Not Reported Drldate: Permit: 1964/12/ Robertson, C.E. Logdate: Logger:

Elev: 561

Elevbase: S Prodyld: 8

Gpmcfs: G Depthbed: 40

Sampsav: 0 Swla: 100

Swlb: Not Reported Water at: Not Reported

Totdepth: 250 Formation: SALEM FORMATION

Formation1: KEOKUK LIMESTONE

Intcrdtp: 0

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: Ν 0.25 MI N OF HWY 21 ON KELLER RD (#5496) Remarks: C total: C plugind: Ν C remarks: Not Reported Construction Information: Well type: 022971 Private Well ld: 196407 Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 40 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Ν Szcashol: 0 Szbelcas: 6 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 Pumptdh: 0 Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: SALEM FORMATION KEOKUK LIMESTONE Formation1: Strata Information: 022971 Stratordr: 0 ld: Fmtop: Fmbot: 40 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin: Secocc:

Not Reported

Minrmin:

Stratordr:

28400

CHERT

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 022971 Fmtop: 40

Fmbot: 250

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 022971 Stratordr: 30800

Fmtop: 40 Fmbot: 235

Formation: MERAMECIAN SERIES

Not Reported

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 022971 Stratordr: 31000

Minlith:

Fmtop: 40

Fmbot: 150

Formation: SALEM FORMATION

Primlith: LIMESTONE Seclith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 022971 Stratordr: 31000

Fmtop: 40 Fmbot: 150

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 022971 Stratordr: 31200

Fmtop: 150 Fmbot: 235

Formation: WARSAW FORMATION

Primlith: SHALE

Seclith: LIMESTONE Minlith: CHERT

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0 Rmk20: Not Reported

Strata Information:

ld: 022971 Stratordr: 31800

Fmtop: 235 Fmbot: 250

Formation : OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 022971 Stratordr: 31900

Fmtop: 235 Fmbot: 250

Formation : KEOKUK LIMESTONE

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 022971 Stratordr: 99900

Fmtop: 250 Fmbot: 250

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

B6 West FED USGS USGS40000693843 1/4 - 1/2 Mile

Lower

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382932090233201 Monloc name: T43N R06E 06CAA1

Monloc type: Well

Monloc desc: Not Reported

07140102 Huc code: Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4922759 Latitude: -90.3923409 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 535 Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone Aquifer type: Not Reported

Construction date: 19640000 Welldepth: 250

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1964-07-01 100

7 NNW FED USGS USGS40000693888

1/4 - 1/2 Mile Lower

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382951090232301 Monloc name: T43N R06E 06ABC1

Monloc type: Well

Monloc desc: Not Reported

Huc code:07140102Drainagearea value:Not ReportedDrainagearea Units:Not ReportedContrib drainagearea:Not ReportedContrib drainagearea units:Not ReportedLatitude:38.4975537Longitude:-90.3898408Sourcemap scale:24000

Horiz Acc measure: 1 Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 562 Vert measure units: 562 Vert measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation Aquifer type: Not Reported

Construction date: 19410000 Welldepth: 245

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1941-01-01 68

C8 SW FED USGS USGS40000693814 1/4 - 1/2 Mile

1/4 - 1/2 Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382920090233101 Monloc name: T43N R06E 06CDA1

Monloc type: Well

Monloc desc: Not Reported

Huc code: 07140102 Drainagearea value: Not Reported Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Contrib drainagearea units: Not Reported 38.4889426 Latitude: Longitude: -90.3920632 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 570 Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation

Aquifer type: Not Reported

Construction date: 19470000 Welldepth: 190

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1947-01-01 60

C9 SW 1/4 - 1/2 Mile Higher

MO WELLS MOLOG1000016677

Id:011220Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Utm x:
 727452.93752

 Utm y:
 4263039.24943

 Latitude:
 38.48855

 Longitude:
 -90.39221

Qtr3: NE Qtr2: SE

 Qtr1:
 SW

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Ε Rngdir: Plssx: 727545 Plssy: 4263534 Location p: 59 570 Elev: Idnum: 11220 Swl: 60

Quadrangle: MAXVILLE Site id: MOLOG1000016677

Header Information:

 Id:
 011220
 Well type:
 Private Well

 Agencyname:
 GEOLOGICAL SURVEY (DGLS) County:
 ST. LOUIS

 Fips:
 189
 Stname:
 MISSOURI

Stabbrev: MO Qtr3: NE SW Qtr2: SE Qtr1: 06 Tnsp: 43 Section: Tnspdir: Ν Rng: 06

Rngdir: E

 Latitude:
 38.48855

 Longitude:
 -90.39221

 Utm x:
 727452.93752

 Utm y:
 4263039.24943

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Schwertz, R. Not Reported **Ehlers** Leasenam: Driller: 1947/10/ Drldate: Permit: Not Reported 1950/02/14 McCracken Logdate: Logger:

Elev: 570

Elevbase: S Prodyld: 1.33

Gpmcfs: G Depthbed: 45

Sampsav: 0 Swla: 60

Swlb: Not Reported Water at: Not Reported

Totdepth: 190 Formation: SALEM FORMATION

Formation1: WARSAW FORMATION

Intcrdtp: 0

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: Ν 2 MI N OF HWY ON BAVER RD Remarks: C total: C plugind: Ν C remarks: Not Reported Construction Information: 011220 Well type: Private Well ld: 194700 Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 42 Cas1diam: 0 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Ν Szcashol: 0 Szbelcas: 0 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 Pumptdh: 0 Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: SALEM FORMATION WARSAW FORMATION Formation1: Strata Information: 011220 Stratordr: 0 ld: Fmtop: 0 Fmbot: 45 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin: Secocc:

Not Reported

Minrmin:

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011220 Fmtop: 45

Fmbot: 190

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 011220 Stratordr: 30800

Fmtop: 45 Fmbot: 190

Formation : MERAMECIAN SERIES

Not Reported

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 011220 Stratordr: 31000

Fmtop: 45 Fmbot: 120

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011220 Stratordr: 31000

Fmtop: 45 Fmbot: 120

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Stratordr:

Minlith:

31200

CHERT

Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011220 Fmtop: 120

Fmbot: 190

Formation: WARSAW FORMATION

Primlith: DOLOMITE Seclith: LIMESTONE

Seclith: LIMESTONE Primmin: Not Reported

Primocc: 0

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 011220 Stratordr: 99900

Fmtop: 190 Fmbot: 190

Formation: TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

D10 SE FED USGS USGS40000693813

Minlith:

1/4 - 1/2 Mile Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382920090224601 Monloc name: T43N R06E 05CCB1

Monloc type: Well

Monloc desc: Not Reported

Huc code: 07140102 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4889425 Latitude: Longitude: -90.3795628 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 600 Vert measure units: 600 Vert measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone

Aquifer type: Not Reported

Construction date: 19460000 Welldepth: 390

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1946-01-01 130

D11 SE MO WELLS MOLOG1000016675

1/4 - 1/2 Mile Higher

Id:009717Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

Stabbrev: MO Utm x: 728537.

 Utm x:
 728537.59232

 Utm y:
 4263058.25019

 Latitude:
 38.48845

 Longitude:
 -90.37978

 Qtr3:
 NW

tr3: NW Qtr2: SW

 Qtr1:
 SW

 Section:
 5

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Rngdir: Ε 729948 Plssx: 4262980 Plssy: Location p: 5 Elev: 600 Idnum: 9717 Swl: 130

Quadrangle: MAXVILLE Site id: MOLOG1000016675

Rng:

Header Information:

Tnspdir:

009717 Well type: Private Well Agencyname: GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS MISSOURI 189 Stname: Fips: Stabbrev: Qtr3: NW MO Qtr2: SW Qtr1: SW Section: 05 Tnsp: 43

Rngdir: E
Latitude: 38.48845
Longitude: -90.37978
Utm x: 728537.59232
Utm y: 4263058.25019

Ν

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog3: Typelog2: Not Reported Not Reported Owner: Melroy Ownerind: Driller: Leasenam: Not Reported Ehlers, H.E. Drldate: 1946/11/16 Permit: Not Reported Logdate: 1947/11/24 Logger: French, E.

06

1.5

Elev: 600 Elevbase: S Prodyld:

G Gpmcfs: Depthbed: 40

Sampsav: 0 Swla: 130

Swlb: Not Reported

Water at: 370

Totdepth: 390 Formation: ST LOUIS LIMESTONE

KEOKUK-BURLINGTON LS. UNDIFF Formation1:

Intcrdtp:

Intcrdbt:

Drawdown: Not Reported Aquclass: Not Reported Confind: 0 Reldate: Not Reported Probind1: Not Reported Probind2: Not Reported Not Reported Additional: Not Reported Probind3: Not Reported Add databa: Alagncy1: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Not Reported Alnum2: Add data 2:

Not Reported Rmkind: Add data 3: Ν

BUTLER HILL RD AND TESSON FERRY RD, 1000' EAST Remarks: C total: C plugind: Ν

C remarks: Not Reported

Construction Information:

Private Well 009717 Well type: Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Not Reported Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2:

Cas1dpth: 44 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 0 Cas3dpth: Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0

Not Reported Inout1: 0 Typgrt1: Typgrt3: Not Reported Typgrt2: Not Reported Mthgrout: Not Reported Rigtype: Not Reported Rmkind: Not Reported Weltreat: Not Reported

Typedev:

Dateabnd: Not Reported

Plgdpt1b: 0 Plgdpt1t: 0 Multcase: Ν Szcashol: 0 Szbelcas: 0 Sizscrn: 0 0 Slotsize:

Typescrn: Not Reported

0

Not Reported Typepump:

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Lenscrn:

Not Reported

Typecomp: Not Reported

Perfintt: 0 Perfintb: 0

Oilprod:Not ReportedGasprod:Not ReportedTubepres:Not ReportedRemarks:Not Reported

Other data: Not Reported Formation : ST LOUIS LIMESTONE

Formation1: KEOKUK LIMESTONE

Strata Information:

ld: 009717 Stratordr: 0

Fmtop: 0 Fmbot: 40

Formation: NO SAMPLES
Primilith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009717 Stratordr: 28400

Fmtop: 40 Fmbot: 390

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009717 Stratordr: 30800

Fmtop: 40 Fmbot: 345

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009717 Stratordr: 30900

Fmtop: 40 Fmbot: 105

Formation: ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: Not Reported Minlith: CHERT

Primmin: Not Reported

Primocc: 0
Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported TC4085433.2s Page A-35

Stratordr:

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009717 Fmtop: 105

Fmbot: 240

Formation: SALEM FORMATION

Primlith: LIMESTONE Seclith: DOLOMITE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 009717 Stratordr: 31000

 Fmtop:
 105

 Fmbot:
 240

Formation : SALEM FORMATION

Not Reported

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009717 Stratordr: 31200

Fmtop: 240 Fmbot: 345

Formation: WARSAW FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: SHALE

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009717 Stratordr: 31800

 Fmtop:
 345

 Fmbot:
 390

Formation : OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

009717 32200 ld: Stratordr:

Fmtop: 345 Fmbot: 390

Formation: KEOKUK-BURLINGTON LS. UNDIFF

Primlith: CHERT

LIMESTONE **DOLOMITE** Minlith: Seclith:

Primmin: Not Reported

Primocc:

Secmin: Not Reported Secocc: 0 Minrmin: Not Reported Minrocc: 0 Rmk20: Not Reported

Strata Information:

009717 99900 ld: Stratordr:

Fmtop: 390 Fmbot: 390

TOTAL DEPTH Formation: Not Reported Primlith:

Seclith: Not Reported Minlith:

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc:

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

MOLOG1000016837 NW MO WELLS

County:

1/4 - 1/2 Mile Higher

> 007427 Located: Υ Notenough: Not Reported Scale: 24k **MISSOURI** Locator: Michael Lemon - Interpolated Stname: ST. LOUIS

Stabbrev: MO

727500.56261 Utm x: Utm y: 4264040.65685 Latitude: 38.49756 Longitude: -90.39134 SE

NE Qtr2: Qtr3:

NW Qtr1: Section: 6 43 Tnsp:

Not Reported Tnspdir:

Rng: 6 Rngdir: Е Plssx: 727545 Plssy: 4263534 Location p: 59 588 Elev: Idnum: 7427

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Not Reported

Swl: 68 Quadrangle: **MAXVILLE** Site id:

MOLOG1000016837

Header Information:

007427 Private Well Well type: GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS Fips: 189 Stname: **MISSOURI** Stabbrev: MO Qtr3: SE NW NE Qtr2: Qtr1:

Section: 06 Tnsp: 43 06 Tnspdir: Ν Rng:

Rngdir: Ε Latitude: 38.49756 -90.39134 Longitude: 727500.56261 Utm x: Utm y: 4264040.65685

38090D4 Quadmap na: MAXVILLE Ohio code: 24k Llmeas: D Scale: Typelog1: Locator: Interpolated

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Lehman, Viola (Mrs.)

Leasenam: Not Reported Driller: Butler, M. Drldate: 1941// Permit: Not Reported 1941/01/06 Logdate: Logger: Grohskopf

Elev: 588

Elevbase: S Prodyld: 1

G Gpmcfs: Depthbed: 10

Sampsav: 0 Swla: 68

Not Reported Swlb: Water at: 200-245'

Totdepth: 245 Formation: ST LOUIS LIMESTONE

WARSAW FORMATION Formation1:

0 Intcrdtp: Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Reldate: Not Reported Confind: Probind2: Not Reported Probind1: Not Reported Probind3: Not Reported Additional: Not Reported Not Reported Add databa: Alagncy1: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Not Reported Alnum2: Add data 2:

Add data 3: Not Reported Rmkind: Ν ON BAVER RD 1 MI W OF TESSON FERRY RD Remarks: C total: C plugind: Ν

C remarks: Not Reported

Construction Information:

Private Well Well type: Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: 194100 Plugind: Not Reported Ν Dateplug: Casemat1: Not Reported Casemat2: Not Reported

Cas1dpth: 11 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0

Cas4dpth: 0 Cas4diam: 0

Inout1: 0 Typgrt1: Not Reported Not Reported Not Reported Typgrt2: Typgrt3: Not Reported Mthgrout: Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported

Dateabnd: Not Reported

 Plgdpt1b:
 0

 Plgdpt1t:
 0

 Multcase:
 N

 Szcashol:
 0

 Szbelcas:
 0

 Sizscrn:
 0

 Slotsize:
 0

 Lenscrn:
 0

Typescrn: Not Reported Typedev: Not Reported

Typepump: Not Reported

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Typecomp: Not Reported

Perfintt: 0 Perfintb: 0

Oilprod:Not ReportedGasprod:Not ReportedTubepres:Not ReportedRemarks:Not Reported

Other data: Not Reported Formation : ST LOUIS LIMESTONE

Formation1: WARSAW FORMATION

Strata Information:

ld: 007427 Stratordr: 0

Fmtop: 0 Fmbot: 10

Formation: NO SAMPLES
Primlith: Not Reported
Seclith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 007427 Stratordr: 28400

Fmtop: 10 Fmbot: 245

Formation: MISSISSIPPIAN SYSTEM

Not Reported

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Stratordr:

30800

CHERT

Minrocc:

Rmk20: Not Reported

Strata Information:

007427 ld: Fmtop: 10

Fmbot: 245

Formation: MERAMECIAN SERIES

Not Reported Primlith:

Not Reported Minlith: Not Reported Seclith:

Not Reported Primmin: Primocc: Secmin: Not Reported Secocc: 0 Not Reported Minrmin: Minrocc: 0 Rmk20: Not Reported

Strata Information:

007427 ld: Stratordr: 30900

Fmtop: 10 Fmbot:

ST. LOUIS LIMESTONE Formation:

LIMESTONE Primlith:

DOLOMITE Seclith: Minlith: **CHERT**

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc:

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 007427 Stratordr: 31000

Minlith:

Fmtop: 80 Fmbot: 190

SALEM FORMATION Formation:

Primlith: LIMESTONE DOLOMITE Seclith:

Primmin: Not Reported

0 Primocc:

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Not Reported Rmk20:

Strata Information:

007427 Stratordr: 31000

Fmtop: 80 Fmbot: 190

SALEM FORMATION Formation:

LIMESTONE Primlith:

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Not Reported Secmin:

Secocc:

Not Reported Minrmin:

Stratordr:

Minlith:

31200

CHERT

Not Reported

ST. LOUIS

SE

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 007427 Fmtop: 190

Fmbot: 245

Formation: WARSAW FORMATION

Not Reported

Primlith: SHALE LIMESTON

Seclith: LIMESTONE Primmin: Not Reported

Primocc: 0

Secmin: Not Reported Secocc: 0
Minrmin: Not Reported Minrocc: 0

Strata Information:

Rmk20:

ld: 007427 Stratordr: 99900

 Fmtop:
 245

 Fmbot:
 245

Formation: TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

County:

Qtr2:

Minlith:

1/4 - 1/2 Mile Lower

Id:011221Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURI

Stabbrev: MO

 Utm x:
 727304.53137

 Utm y:
 4263809.8128

 Latitude:
 38.49553

 Longitude:
 -90.39366

 Qtr3:
 NW

Qtr1: NW

Section: 6 Tnsp: 43

Tnspdir: Not Reported

 Rng:
 6

 Rngdir:
 E

 Plssx:
 727545

 Plssy:
 4263534

 Location p:
 59

 Elev:
 536

 Idnum:
 11221

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Swl: 50

Quadrangle: MAXVILLE Site id: MOLOG1000016804

Header Information:

Private Well 011221 Well type: GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS Fips: 189 Stname: **MISSOURI** Stabbrev: MO Qtr3: NW SE NW Qtr2: Qtr1: Section: 06 Tnsp: 43 06 Tnspdir: Ν Rng:

Rngdir: E

Latitude: 38.49553 Longitude: -90.39366 Utm x: 727304.53137 Utm y: 4263809.8128

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Walters Leasenam: Not Reported Driller: **Ehlers** 1947/10/ Drldate: Permit: Not Reported 1950/02/14 McCracken Logdate: Logger:

Elev: 536

Elevbase: S Prodyld: 0.5

Gpmcfs: G Depthbed: 70

Sampsav: 0 Swla: 50

Swlb: Not Reported Water at: 335' (SALT)

Totdepth: 330 Formation: SALEM - WARSAW FMS.

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Intcrdtp: 0 Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Reldate: Not Reported Confind: Not Reported Probind1: Not Reported Probind2: Probind3: Not Reported Additional: Not Reported Not Reported Add databa: Alagncy1: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Alnum2: Add data 2: Not Reported

Add data 3: Not Reported Rmkind: N

Remarks: 2 MI N OF HWY 21 ON BAVER RD; PLUGGED BACK TO 325'
C total: 64 C plugind: N

C remarks: Not Reported

Construction Information:

Id:011221Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS)Datecomp:194700Plugind:NDateplug:Not ReportedCasemat1:Not ReportedCasemat2:Not Reported

 Cas1dpth:
 64

 Cas1diam:
 0

 Cas2dpth:
 0

 Cas2diam:
 0

 Cas3dpth:
 0

 Cas3diam:
 0

Cas4dpth: 0 Cas4diam: 0

Inout1: 0 Typgrt1: Not Reported Not Reported Not Reported Typgrt2: Typgrt3: Not Reported Mthgrout: Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported

Dateabnd: Not Reported

 Plgdpt1b:
 0

 Plgdpt1t:
 0

 Multcase:
 N

 Szcashol:
 0

 Szbelcas:
 0

 Sizscrn:
 0

 Slotsize:
 0

 Lenscrn:
 0

Typescrn: Not Reported Typedev: Not Reported

Typepump: Not Reported

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Typecomp: Not Reported

Perfintt: 0 Perfintb: 0

Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported

Other data: Not Reported Formation: SALEM - WARSAW FMS.

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Strata Information:

ld: 011221 Stratordr: 0

 Fmtop:
 185

 Fmbot:
 200

Formation : NO SAMPLES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011221 Stratordr: 0

Fmtop: 80 Fmbot: 100

Formation: NO SAMPLES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrocc: Rmk20: Not Reported Strata Information: 0 ld: 011221 Stratordr: Fmtop: 0 Fmbot: 70 Formation: NO SAMPLES Not Reported Primlith: Not Reported Minlith: Not Reported Seclith: Primmin: Not Reported Primocc: Secmin: Not Reported Secocc: 0 Not Reported Minrmin: Minrocc: 0 Rmk20: Not Reported Strata Information: 0 ld: 011221 Stratordr: Fmtop: 135 Fmbot: 150 NO SAMPLES Formation: Not Reported Primlith: Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: Not Reported Secmin: Secocc: Not Reported Minrmin: Minrocc: Rmk20: Not Reported Strata Information: ld: 011221 Stratordr: 0 Fmtop: 205 215 Fmbot: NO SAMPLES Formation: Not Reported Primlith: Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported 0 Primocc: Secmin: Not Reported Secocc: 0 Minrmin: Not Reported Minrocc: Not Reported Rmk20: Strata Information: 011221 Stratordr: 0 Fmtop: 240 250 Fmbot: NO SAMPLES Formation: Not Reported Primlith: Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Secmin: Not Reported

Secocc:

Minrmin:

Not Reported

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 011221 Fmtop: 70

Fmbot: 330

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

 Primmin:
 Not Reported

 Primocc:
 0

 Secmin:
 Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 011221 Stratordr: 30800

Fmtop: 70 Fmbot: 240

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011221 Stratordr: 31100

Fmtop: 70 Fmbot: 240

Formation : SALEM - WARSAW FMS.

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011221 Stratordr: 31100

 Fmtop:
 70

 Fmbot:
 240

Formation: SALEM - WARSAW FMS.

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31800

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011221 Fmtop: 250

Fmbot: 330

Formation: OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported Primocc: 0
Secmin: Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 011221 Stratordr: 32200

Fmtop: 250 Fmbot: 330

Formation : KEOKUK-BURLINGTON LS. UNDIFF

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011221 Stratordr: 99900

Fmtop: 330 Fmbot: 330

Formation: TOTAL DEPTH

Primlith: Not Reported
Seclith: Not Reported Minlith:

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

F14
NNE MO WELLS MOLOG1000016869

NNE 1/4 - 1/2 Mile Higher

TC4085433.2s Page A-46

Not Reported

Id:011453Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Utm x:
 728213.24994

 Utm y:
 4264223.8758

 Latitude:
 38.49902

 Longitude:
 -90.38312

Qtr3: NE Qtr2: NE

 Qtr1:
 NE

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Е Rngdir: Plssx: 727545 Plssy: 4263534 Location p: 59 625 Elev: Idnum: 11453 Swl: 190

Quadrangle: MAXVILLE Site id: MOLOG1000016869

Header Information:

 Id:
 011453
 Well type:
 Private Well

 Agencyname:
 GEOLOGICAL SURVEY (DGLS)
 County:
 ST. LOUIS

 Fips:
 189
 Stname:
 MISSOURI

Stabbrev: MO Qtr3: NE ΝE Qtr2: NE Qtr1: 06 Tnsp: 43 Section: Tnspdir: Ν Rng: 06

Rngdir: E

 Latitude:
 38.49902

 Longitude:
 -90.38312

 Utm x:
 728213.24994

 Utm y:
 4264223.8758

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Schoon & Meyer Weber Fogg Co Leasenam: Not Reported Driller: 1950/07/21 Not Reported Drldate: Permit: 1950/10/05 Marinkovic, S. Logdate: Logger:

Elev: 625

Elevbase: S Prodyld: 5

Gpmcfs: G Depthbed: 55

Sampsav: 0 Swla: 190

Swlb: Not Reported

Water at: 387', 408' (SALT)

Totdepth: 408 Formation : ST LOUIS LIMESTONE

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Intcrdtp: 0

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Probind1: Probind2: Not Reported Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: Ν C total: C plugind: Ν 55 C remarks: Not Reported Construction Information: 011453 Well type: Private Well ld: GEOLOGICAL SURVEY (DGLS) Datecomp: 195007 Agencyname: Plugind: Ν Dateplug: Not Reported Casemat1: Not Reported Casemat2: Not Reported Cas1dpth: 55 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 0 Cas4dpth: Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Typgrt2: Not Reported Typgrt3: Not Reported Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Not Reported Dateabnd: Pladpt1b: 0 Plgdpt1t: 0 Ν Multcase: 0 Szcashol: Szbelcas: 0 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 0 Pumptdh: Pumpset: 0 Typecomp: Not Reported Perfintt: 0 Perfintb: Oilprod: Not Reported Gasprod: Not Reported Not Reported Remarks: Not Reported Tubepres: ST LOUIS LIMESTONE Other data: Not Reported Formation: Formation1: KEOKUK LIMESTONE Strata Information: ld: 011453 Stratordr: 0 Fmtop: 0 Fmbot: 55 NO SAMPLES Formation: Not Reported Primlith: Not Reported Seclith: Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin:

Secocc: Minrmin:

Not Reported

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Fmtop: 55

Fmbot: 408

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 011453 Stratordr: 30800

Fmtop: 55 Fmbot: 340

Formation : MERAMECIAN SERIES

Not Reported

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Stratordr: 30900

Fmtop: 55 Fmbot: 122

Formation : ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: Not Reported Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Stratordr: 31000

 Fmtop:
 122

 Fmbot:
 265

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: ZnS Primocc: 2

Secmin: Not Reported

Secocc: 0

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Stratordr: 31000

Fmtop: 122 Fmbot: 265

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: ZnS Primocc: 2

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 011453 Stratordr: 31200

Fmtop: 265 Fmbot: 340

Formation: WARSAW FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: SHALE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Stratordr: 31800

Fmtop: 340 Fmbot: 408

Formation: OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Stratordr: 32200

Fmtop: 340 Fmbot: 408

Formation: KEOKUK-BURLINGTON LS. UNDIFF

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

Minlith:

99900

Not Reported

ST. LOUIS

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011453 Fmtop: 408

Fmbot: 408

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported
Not Reported

Primmin: Not Reported

Primmin: N Primocc: 0

Secmin: Not Reported Secocc: 0
Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

E15 NW MO WELLS MOLOG1000016819

County:

NW 1/4 - 1/2 Mile

Lower

Id:011212Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURI

Stabbrev: MO

Utm x: 727320.4064 Utm y: 4263905.06299 Latitude: 38.49638 Longitude: -90.39345

Qtr3: NW Qtr2: SE

 Qtr1:
 NW

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

 Rng:
 6

 Rngdir:
 E

 Plssx:
 727545

 Plssy:
 4263534

 Location p:
 59

 Elev:
 553

 Idnum:
 11212

 Swl:
 0

Quadrangle: MAXVILLE Site id: MOLOG1000016819

Rng:

Header Information:

Private Well Well type: GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS MISSOURI 189 Stname: Fips: MO Qtr3: NW Stabbrev: SE NW Qtr2: Qtr1: Section: 06 Tnsp: 43

Tnspdir: N Rngdir: E

Latitude: 38.49638 Longitude: -90.39345 06

2

Not Reported

Utm x: 727320.4064 Utm y: 4263905.06299

Quadmap na: MAXVILLE Ohio code: 38090D4 Llmeas: D Scale: 24k Interpolated Locator: Typelog1: S

Typelog3: Typelog2: Not Reported Not Reported Ownerind: Owner: Weiss, J. Leasenam: Not Reported Driller: **Ehlers** 1947/10/ Drldate: Permit: Not Reported McNeal

1950/02/02 Logdate: Logger: Elev: 553

Elevbase: S Prodyld: Gpmcfs: G

Depthbed: 20 Sampsav: 0 Swla:

Not Reported Swlb: Not Reported

Water at: Not Reported Totdepth: Formation: SALEM FORMATION 140

WARSAW FORMATION Formation1:

Intcrdtp: 0 Intcrdbt: 0 Drawdown: Not Reported Aquclass:

Confind: Reldate: Not Reported Probind2: Not Reported Probind1: Not Reported Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Add data 2: Not Reported Alnum2:

Add data 3: Not Reported Rmkind:

BAVER RD Remarks: C total: 30 C plugind:

Ν C remarks: Not Reported

Construction Information:

Cas4dpth:

011212 Well type: Private Well GEOLOGICAL SURVEY (DGLS) Datecomp: Agencyname: 194700 Plugind: Not Reported Ν Dateplug: Not Reported

Casemat1: Not Reported Casemat2: Cas1dpth: 30 Cas1diam: 0 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0

0

Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Typgrt2: Not Reported Typgrt3: Not Reported Not Reported Mthgrout: Rigtype: Not Reported

Not Reported Rmkind: Not Reported

Weltreat: Not Reported Dateabnd:

Plgdpt1b: 0 Plgdpt1t: 0 Multcase: Ν

Typedev:

Not Reported

0 Szcashol: Szbelcas: 0 Sizscrn: 0 Slotsize: 0 Lenscrn: 0

Typescrn: Not Reported

Typepump: Not Reported

Pumpcap: Pumptdh: 0 Pumpset: 0

Not Reported Typecomp:

Perfintt: 0 Perfintb: 0

Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported

Not Reported SALEM FORMATION Other data: Formation:

Formation1: WARSAW FORMATION

Strata Information:

0 ld: 011212 Stratordr:

Fmtop: 0 Fmbot: 20

NO SAMPLES Formation: Not Reported Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 011212 Stratordr: 28400

Fmtop: 20 Fmbot: 140

MISSISSIPPIAN SYSTEM Formation:

Not Reported Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

0 Primocc:

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Not Reported Rmk20:

Strata Information:

011212 Stratordr: 30800

Fmtop: 20 Fmbot: 140

MERAMECIAN SERIES Formation:

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported 0

Primocc:

Secmin: Not Reported

Secocc:

Not Reported Minrmin:

Stratordr:

Minlith:

31000

CHERT

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011212 Fmtop: 20

Fmbot: 80

Formation: SALEM FORMATION

Primlith: LIMESTONE Seclith: DOLOMITE

Seclith: DOLOMITE Primmin: Not Reported

Primocc: 0
Secmin: Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 011212 Stratordr: 31000

Fmtop: 20 Fmbot: 80

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 011212 Stratordr: 31200

Fmtop: 80 Fmbot: 140

Formation: WARSAW FORMATION

Primlith: WARSAW F

Seclith: DOLOMITE Minlith: LIMESTONE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011212 Stratordr: 99900

Fmtop: 140 Fmbot: 140

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrocc: 0

Rmk20: Not Reported

G16 SE FED USGS USGS40000693805

1/2 - 1 Mile Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382916090224401 Monloc name: T43N R06E 05CCB2

Monloc type: Well

Monloc desc: Not Reported

07140102 Huc code: Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4878314 Latitude: 24000 Longitude: -90.3790072 Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 600 Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode:

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone Aquifer type: Not Reported

Construction date: 19470000 Welldepth: 371

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1947-09-01 135

F17
NNE FED USGS USGS40000693911

1/2 - 1 Mile Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382958090225701 Monloc name: T43N R06E 06AAA1

Monloc type: Well

Monloc desc: Not Reported

Huc code:07140102Drainagearea value:Not ReportedDrainagearea Units:Not ReportedContrib drainagearea:Not ReportedContrib drainagearea units:Not ReportedLatitude:38.4994981Longitude:-90.3826183Sourcemap scale:24000

US

Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 625 Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone Aquifer type: Not Reported

19500000 408 Construction date: Welldepth:

Welldepth units: Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1950-07-01 190

18 NW MOLOG1000016828 **MO WELLS** 1/2 - 1 Mile

Qtr2:

Lower

ld: 002749 Located: 24k Notenough: Not Reported Scale: **MISSOURI** Locator: Michael Lemon - Interpolated Stname: County: ST. LOUIS

Stabbrev: MO

727265.62484 Utm x: Utm y: 4263986.75057 Latitude: 38.49713 -90.39405 Longitude:

Qtr3: С

Qtr1: Not Reported

Section: 6 Tnsp: 43

Not Reported Tnspdir:

Rng: 6 Rngdir: Ε 727545 Plssx: 4263534 Plssy: 236 Location p: Elev: 576 Idnum: 2749 Swl:

MAXVILLE Quadrangle: Site id: MOLOG1000016828

Header Information:

002749 Well type: Private Well Agencyname: GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS **MISSOURI** Stname: Fips: 189

Stabbrev: MO Qtr3: С

Qtr2: NW Qtr1: Not Reported Section: 06 Tnsp: 43 Tnspdir: Ν Rng: 06

Rngdir: Ε

Latitude: 38.49713 Longitude: -90.39405 NW

Utm x: 727265.62484 Utm y: 4263986.75057

Quadmap na: MAXVILLE Ohio code: 38090D4 Llmeas: D Scale: 24k Locator: Interpolated Typelog1: D

Typelog3: Typelog2: Not Reported Not Reported Ownerind: Owner: HILMER Leasenam: Not Reported Driller: BURT, E.E. 1933/08/00 Permit: Not Reported Drldate: 0000/00/00 **GLEASON** Logdate: Logger:

Elev: 576

Elevbase: S Prodyld: 2

Gpmcfs: G

Depthbed: 15 0 Sampsav:

Swla: Not Reported

Swlb: Not Reported Water at: Not Reported

Formation: ST LOUIS LIMESTONE Totdepth: 140

SALEM FORMATION Formation1:

Intcrdtp: 0 Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Probind1: Not Reported Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported

Not Reported Add data 2: Not Reported Alnum2: Add data 3: Not Reported Rmkind:

C total: C plugind: Not Reported C remarks: Not Reported

Strata Information:

002749 0 Stratordr: ld:

Fmtop: 0 Fmbot: 15

NO SAMPLES Formation: Primlith: Not Reported

Minlith: Seclith: Not Reported Not Reported

Primmin: Not Reported Primocc: Not Reported Secmin: Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

28400 ld: 002749 Stratordr:

Fmtop: 15 Fmbot: 140

MISSISSIPPIAN SYSTEM Formation:

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc:

Stratordr:

30800

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 002749 Fmtop: 15

Fmbot: 140

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 002749 Stratordr: 30900

Fmtop: 15 Fmbot: 70

Formation : ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 002749 Stratordr: 31000

Fmtop: 70 Fmbot: 140

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 002749 Stratordr: 31000

Fmtop: 70 Fmbot: 140

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

Minlith:

County:

99900

Not Reported

MO WELLS

ST. LOUIS

MOLOG1000016785

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 002749 Fmtop: 140

Fmbot: 140

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported Secocc: 0
Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

ENE 1/2 - 1 Mile Higher

Id:003702Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURI

Stabbrev: MO

 Utm x:
 728812.99872

 Utm y:
 4263725.15774

 Latitude:
 38.49438

 Longitude:
 -90.37641

Qtr3: SE Qtr2: SW

 Qtr1:
 NW

 Section:
 5

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Е Rngdir: Plssx: 729948 Plssy: 4262980 5 Location p: 616 Elev: 3702 Idnum: Swl: 124

Quadrangle: MAXVILLE Site id: MOLOG1000016785

Header Information:

Id:003702Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS) County:ST. LOUISFips:189Stname:MISSOURIStabbrev:MOQtr3:SE

 Qtr2:
 SW
 Qtr1:
 NW

 Section:
 05
 Tnsp:
 43

 Tnspdir:
 N
 Rng:
 06

 Rngdir:
 E
 6

Latitude: 38.49438 Longitude: -90.37641

 Utm x:
 728812.99872

 Utm y:
 4263725.15774

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog3: Typelog2: Not Reported Not Reported Ownerind: Owner: Wind, Dan Leasenam: Not Reported Driller: Flamm, Theo 1936/07/06 Permit: Not Reported Drldate: Not Reported Hundhausen Logdate: Logger:

Elev: 616

Elevbase: S Prodyld: 96

Gpmcfs: G Depthbed: 35

Sampsav: 0 Swla: 124

Swlb: Not Reported Water at: Not Reported

Totdepth: 370 Formation: ST LOUIS LIMESTONE

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Interdtp: 0
Interdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Probind2: Not Reported Probind1: Not Reported Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Add data 2: Not Reported Alnum2:

Add data 3: Not Reported Rmkind: N

Remarks: 100' S OF BUTLER HILL RD, DIRECTLY S OF LENZ WELL

C total: 39 C plugind: N

C remarks: Not Reported

Construction Information:

Id:003702Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS)Datecomp:193607Plugind:NDateplug:Not ReportedCasemat1:Not ReportedCasemat2:Not Reported

Cas1dpth: 39 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0

Inout1: 0 Typgrt1: Not Reported Typgrt2: Not Reported Typgrt3: Not Reported Not Reported Mthgrout: Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported

Dateabnd: Not Reported

Plgdpt1b: 0
Plgdpt1t: 0
Multcase: N

Typedev:

Not Reported

Szcashol: 0
Szbelcas: 0
Sizscrn: 0
Slotsize: 0
Lenscrn: 0

Typescrn: Not Reported

Typepump: Not Reported

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Typecomp: Not Reported

Perfintt: 0

Perfintb: 0

Oilprod:Not ReportedGasprod:Not ReportedTubepres:Not ReportedRemarks:Not Reported

Other data: Not Reported Formation : ST LOUIS LIMESTONE

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Strata Information:

ld: 003702 Stratordr: 0

Fmtop: 0 Fmbot: 35

Formation : NO SAMPLES Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003702 Stratordr: 28400

Fmtop: 35

Fmbot: 370

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003702 Stratordr: 30800

 Fmtop:
 35

 Fmbot:
 335

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

30900

Minrocc: 0

Rmk20: Not Reported

Strata Information:

 Id:
 003702
 Stratordr:

 Fmtop:
 35

Fmbot: 115

Formation: ST. LOUIS LIMESTONE

Primlith: LIMESTONE Seclith: DOLOMITE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 003702 Stratordr: 31000

Fmtop: 115 Fmbot: 260

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: SHALE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003702 Stratordr: 31000

Fmtop: 115 Fmbot: 260

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: SHALE

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003702 Stratordr: 31200

 Fmtop:
 260

 Fmbot:
 335

Formation : WARSAW FORMATION

Primilith: SHALE

Seclith: LIMESTONE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31800

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003702

Fmtop: 335 Fmbot: 370

Formation: OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported Primocc: 0
Secmin: Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 003702 Stratordr: 32200

Fmtop: 335 Fmbot: 370

Formation : KEOKUK-BURLINGTON LS. UNDIFF

Primlith: CHERT

Seclith: LIMESTONE Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003702 Stratordr: 99900

Fmtop: 370 Fmbot: 370

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

G20 SE 1/2 - 1 Mile Higher

MO WELLS MOLOG1000016659

003669 Located: Υ ld: Notenough: Not Reported Scale: 24k MISSOURI Locator: Michael Lemon - Interpolated Stname: ST. LOUIS Stabbrev: County:

728684.43637 Utm x: 4262913.34366 Utm y: Latitude: 38.48711 Longitude: -90.37815

SW Qtr2: SW Qtr3:

SW Qtr1: Section: 5 Tnsp: 43

Tnspdir: Not Reported

Rng: 6 Ε Rngdir: 729948 Plssx: 4262980 Plssy: Location p: 5 612 Elev: Idnum: 3669 Swl: 75

MAXVILLE Quadrangle: Site id: MOLOG1000016659

Header Information:

Private Well 003669 Well type: Agencyname: GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS MISSOURI Fips: Stname: SW Stabbrev: MO Qtr3:

SW Qtr2: SW Qtr1: 05 Tnsp: 43 Section: Tnspdir: Ν Rng: 06 Rngdir: Ε

38.48711 Latitude: -90.37815 Longitude: Utm x: 728684.43637 Utm y: 4262913.34366

38090D4 Quadmap na: MAXVILLE Ohio code: Llmeas: D Scale: 24k D Locator: Interpolated Typelog1: Typelog2: Not Reported Typelog3: S

Ownerind: Owner: Lenz, William Not Reported Leasenam: Driller: Flamm, Theo 1936/06/23 Drldate: Not Reported Permit:

Not Reported Grohskopf / Hundhausen Logdate: Logger: Elev: 612

Elevbase: S

Prodyld: Not Reported Gpmcfs: Not Reported

Depthbed: 30

75 Sampsav: 0 Swla:

Swlb: Not Reported

325' Water at:

Totdepth: ST LOUIS LIMESTONE 341 Formation:

KEOKUK-BURLINGTON LS. UNDIFF Formation1:

Intcrdtp:

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: DUG WELL TO 20', OLD WELL TO 50', @ MATTESE Remarks: C total: C plugind: Not Reported C remarks: Not Reported Construction Information: 003669 Not Reported Well type: Agencyname: Not Reported Datecomp: Plugind: Not Reported Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 30 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: Not Reported Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Not Reported Szcashol: 0 Szbelcas: 0 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 0 Pumptdh: Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Oilprod: Not Reported Not Reported Gasprod: Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: ST LOUIS LIMESTONE KEOKUK-BURLINGTON LS. UNDIFF Formation1: Strata Information: 003669 Stratordr: 0 ld: Fmtop: Fmbot: 30 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Secmin: Not Reported Secocc:

Not Reported

Minrmin:

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003669 Fmtop: 30

Fmbot: 340

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 003669 Stratordr: 30800

Fmtop: 30 Fmbot: 320

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003669 Stratordr: 30900

Fmtop: 30 Fmbot: 90

Formation : ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003669 Stratordr: 31000

Fmtop: 90 Fmbot: 245

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31000

Minrocc:

Rmk20: Not Reported

Strata Information:

003669 ld: Fmtop: 90

Fmbot: 245

Formation: SALEM FORMATION

LIMESTONE Primlith:

DOLOMITE Minlith: Seclith: CHERT

Primmin: Not Reported Primocc: Secmin: Not Reported Secocc: 0 Not Reported Minrmin:

Minrocc: 0 Rmk20: Not Reported

Strata Information:

003669 31200 ld: Stratordr:

Fmtop: 245 Fmbot:

WARSAW FORMATION Formation:

Primlith: SHALE

Seclith: LIMESTONE Minlith: **CHERT**

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc:

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 003669 Stratordr: 31800

Fmtop: 320 341 Fmbot:

OSAGEAN SERIES Formation:

Not Reported Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

0 Primocc:

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Not Reported Rmk20:

Strata Information:

003669 Stratordr: 31900

320 Fmtop: Fmbot: 341

KEOKUK LIMESTONE Formation:

CHERT Primlith:

Seclith: LIMESTONE Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Not Reported Secmin:

Secocc:

Not Reported Minrmin:

Stratordr:

99900

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003669 Fmtop: 341

Fmbot: 341

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Rmk20: Not Reported

Remarks:

Id:003669Feature:WPAgency:GSFileid:H

Remarks: Not Reported

H21
East FED USGS USGS40000693847
1/2 - 1 Mile

1/2 - 1 Mi Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382934090223101 Monloc name: T43N R06E 05BDC1

Monloc type: Well

Monloc desc: Not Reported

Huc code: 07140102 Drainagearea value: Not Reported Not Reported Not Reported Drainagearea Units: Contrib drainagearea: 38.4928314 Contrib drainagearea units: Not Reported Latitude: 24000 Longitude: -90.3753959 Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 610
Vert measure units: feet Vertacc measure val: 10

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone
Aquifer type: Confined multiple aquifer

Construction date: 19360000 Welldepth: 370

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1936-07-01 124

Map ID Direction Distance

 Elevation
 Database
 EDR ID Number

 I22
 WNW
 MO WELLS
 MOLOG1000016827

1/2 - 1 Mile Lower

> ld: 002929 Located: Υ 24k Notenough: Not Reported Scale: **MISSOURI** Locator: Michael Lemon - Interpolated Stname: Stabbrev: ST. LOUIS MO County:

Utm x: 727110.90678
Utm y: 4263981.12548
Latitude: 38.49712
Longitude: -90.39583
Qtr3: SW

Qtr3: SW Qtr2: NW

 Qtr1:
 NW

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

 Rng:
 6

 Rngdir:
 E

 Plssx:
 727545

 Plssy:
 4263534

 Location p:
 59

 Elev:
 552

 Idnum:
 2929

 Swl:
 0

Quadrangle: MAXVILLE Site id: MOLOG1000016827

Rng:

Header Information:

002929 Well type: Private Well GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS Agencyname: 189 Stname: **MISSOURI** Fips: Stabbrev: MO Qtr3: SW NW Qtr2: NW Qtr1: Section: 06 Tnsp: 43

Tnspdir: N
Rngdir: E
Latitude: 38.49712
Longitude: -90.39583
Utm x: 727110.90678
Utm y: 4263981.12548

Quadmap na:MAXVILLEOhio code:38090D4Llmeas:DScale:24kLocator:InterpolatedTypelog1:D

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: RUSSEL Not Reported Driller: **EHLERS** Leasenam: Drldate: 1934/07/00 Permit: Not Reported Logdate: 0000/00/00 **GLEASON** Logger:

Elev: 552

Elevbase: S Prodyld: Not Reported

Gpmcfs: Not Reported

Depthbed: 155

Sampsav: 0 Swla: Not Reported

Swlb: Not Reported Water at: Not Reported

Totdepth: 335 Formation: SALEM FORMATION

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Intcrdtp: 0

06

C plugind:

Not Reported

Not Reported

Intcrdbt:

Aquclass: Drawdown: Not Reported

Confind:

Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Not Reported Probind3: Additional: Not Reported Not Reported Alagncy1: Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported

Add data 3: Not Reported Rmkind: Ν

C total:

C remarks: Not Reported

Strata Information:

0 002929 Stratordr: ld:

Fmtop: 160 270 Fmbot:

Formation: NO SAMPLES

Not Reported Primlith:

Not Reported Minlith: Not Reported Seclith:

Primmin: Not Reported

Primocc:

Secmin: Not Reported

Secocc:

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

002929 Stratordr: 0

Fmtop: 0 Fmbot: 155

Formation: NO SAMPLES Primlith: Not Reported

Not Reported Minlith: Seclith: Not Reported

Primmin: Not Reported

Primocc:

Secmin: Not Reported Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

002929 Stratordr: 31000 ld:

Fmtop: 155 Fmbot: 160

SALEM FORMATION Formation:

LIMESTONE Primlith:

CHERT Minlith: Seclith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 002929 Fmtop: 155

Fmbot: 160

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Strata Information:

Rmk20:

ld: 002929 Stratordr: 32200

Fmtop: 270 Fmbot: 335

Formation: KEOKUK-BURLINGTON LS. UNDIFF

Not Reported

Primlith: CHERT

Seclith: LIMESTONE Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 002929 Stratordr: 99900

Fmtop: 335 Fmbot: 335

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Lower

Rmk20: Not Reported

23 West FED USGS USGS40000693856 1/2 - 1 Mile

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382939090235001 Monloc name: T43N R06E 06BCC1

Monloc type: Well

Monloc desc: Not Reported

Huc code: 07140102 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4942204 Latitude: 24000 Longitude: -90.397341 Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 440 Vert measure units: 440 Vert measure val: 10

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Salem Formation Aquifer type: Not Reported

Construction date: 19330000 Welldepth: 140

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

----- Guilace Gealevel

1983-06-15 56.4

124 WNW FED USGS USGS40000693880 1/2 - 1 Mile

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382950090234501 Monloc name: T43N R06E 06BBD1

Monloc type: Well

Monloc desc: Not Reported

07140102 Not Reported Huc code: Drainagearea value: Not Reported Not Reported Drainagearea Units: Contrib drainagearea: Contrib drainagearea units: Not Reported Latitude: 38.4972759 -90.3959521 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 552 Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone

Aquifer type: Confined multiple aquifer

Construction date: 19340000 Welldepth:

Welldepth units: Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

H25 **FED USGS** USGS40000693849 East

1/2 - 1 Mile Higher

> Org. Identifier: **USGS-MO**

Formal name: USGS Missouri Water Science Center

USGS-382936090222801 Monloc Identifier: Monloc name: T43N R06E 05CCC1

Monloc type: Well

Monloc desc: Not Reported

07140102 Huc code: Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported Latitude: 38.4933869 Longitude: -90.3745626 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 612 Vert measure val: Vert measure units: feet Vertacc measure val: 10

Vert accmeasure units: feet

Interpolated from topographic map Vertcollection method:

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Keokuk Limestone Aquifer type: Not Reported

19360000 Welldepth: 341 Construction date:

Wellholedepth: Not Reported Welldepth units:

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1936-06-01 75

J26 MO WELLS MOLOG1000016813

WNW 1/2 - 1 Mile Lower

004892 Located: Υ ld: Notenough: Not Reported Scale: 24k MISSOURI Locator: Michael Lemon - Interpolated Stname: County: ST. LOUIS

Stabbrev: MO

Utm x: 727028.34392 Utm y: 4263859.09424 38.49604 Latitude: Longitude: -90.39681

SW Qtr3: С Qtr2:

Qtr1: NW

Section: 6 Tnsp: 43

Tnspdir: Not Reported

Rng: 6 Rngdir: Ε Plssx: 727545 Plssy: 4263534 Location p: 118 549 Elev: 4892 Idnum: Swl: 0

Quadrangle: MAXVILLE Site id: MOLOG1000016813

Header Information:

 Id:
 004892
 Well type:
 Private Well

 Agencyname:
 GEOLOGICAL SURVEY (DGLS)
 County:
 ST. LOUIS

 Fips:
 189
 Stname:
 MISSOURI

Stabbrev: MO Qtr3: С SW Qtr1: NW Qtr2: Section: 06 Tnsp: 43 Tnspdir: Ν Rng: 06

Rngdir: E
Latitude: 38.49604
Longitude: -90.39681
Utm x: 727028.34392
Utm y: 4263859.09424

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog3: Not Reported Not Reported Typelog2: Ownerind: Owner: Knox Well #1 Leasenam: Not Reported Driller: Haverstick Well Co Not Reported Drldate: 1938// Permit: Logdate: 1938/07/13 Grohskopf Logger:

Elev: 549

Elevbase: S Prodyld: Not Reported

Gpmcfs: Not Reported

Depthbed: 30

Sampsav: 0 Swla: Not Reported

Swlb: Not Reported Water at: Not Reported

Totdepth: 188 Formation: SALEM FORMATION

Formation1: WARSAW FORMATION

Interdtp: 0

Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Probind1: Not Reported Probind2: Not Reported Not Reported Probind3: Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported

Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported

Add data 3: Not Reported Rmkind: N

Remarks: ON BAVER RD

C total: 0 C plugind: Not Reported

C remarks: Not Reported

Strata Information:

ld: 004892 Stratordr: 0

Fmtop: 0 Fmbot: 30

Formation: NO SAMPLES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Not Reported
Not Reported
Not Reported

Strata Information:

ld: 004892 Stratordr: 28400

Fmtop: 30 Fmbot: 188

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 004892 Stratordr: 30800

Fmtop: 30 Fmbot: 188

Fmbot: 188
Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith:

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 004892 Stratordr: 31000

Fmtop: 30 Fmbot: 125

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Not Reported

Stratordr:

31000

Minrocc:

Rmk20: Not Reported

Strata Information:

004892 ld: Fmtop: 30

Fmbot: 125

Formation: SALEM FORMATION

LIMESTONE Primlith:

DOLOMITE Minlith: Seclith: CHERT

Primmin: Not Reported

Primocc:

Secmin: Not Reported Secocc: 0 Not Reported Minrmin: Minrocc: 0 Rmk20: Not Reported

Strata Information:

004892 31200 ld: Stratordr:

Fmtop: 125 Fmbot:

WARSAW FORMATION Formation:

SHALE Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc: 0

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 004892 Stratordr: 99900

Fmtop: 188 Fmbot: 188

TOTAL DEPTH Formation:

Not Reported Primlith: Seclith: Not Reported

Minlith: Primmin: Not Reported

0 Primocc:

Secmin:

Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

J27 WNW 1/2 - 1 Mile Lower

USGS40000693870 **FED USGS**

TC4085433.2s Page A-76

Not Reported

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382944090234901 Monloc name: T43N R06E 06BCA1

Monloc type: Well

Monloc desc: Not Reported

Huc code: 07140102 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4956093 Latitude: 24000 Longitude: -90.3970633 Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 535 Vert measure units: 545 Vert measure val: 555 Vert measure val: 555 Vert measure val: 557 Vert measure val

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation

Aquifer type: Not Reported

Construction date: 19380000 Welldepth: 188

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

1/2 - 1 Mile Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382932090222701 Monloc name: T43N R06E 05CAB1

Monloc type: Well

Monloc desc: Not Reported Huc code: 07140102

Drainagearea value: Not Reported Contrib drainagearea: Drainagearea Units: Not Reported Not Reported Contrib drainagearea units: Not Reported 38.4922758 Latitude: Longitude: -90.3742848 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 610 Vert measure units: 610 Vert measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation Aquifer type: Not Reported

Construction date: 19400000 Welldepth: 270

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance

 Elevation
 Database
 EDR ID Number

 K29
 MO WELLS
 MOLOG1000016669

1/2 - 1 Mile Higher

> ld: 009708 Located: Υ 24k Notenough: Not Reported Scale: **MISSOURI** Locator: Michael Lemon - Interpolated Stname: Stabbrev: ST. LOUIS MO County:

Utm x: 727063.28169
Utm y: 4262951.93675
Latitude: 38.48787
Longitude: -90.39671
Qtr3: NW

 Qtr3:
 NW
 Qtr2:
 SW

 Qtr1:
 SW

 Qtr1:
 SW

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

 Rng:
 6

 Rngdir:
 E

 Plssx:
 727545

 Plssy:
 4263534

 Location p:
 59

 Elev:
 608

 Idnum:
 9708

 Swl:
 135

Quadrangle: MAXVILLE Site id: MOLOG1000016669

Rng:

Header Information:

009708 Well type: Private Well GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS Agencyname: 189 Stname: **MISSOURI** Fips: Stabbrev: MO Qtr3: NW SW Qtr2: SW Qtr1: Section: 43 06 Tnsp:

Tnspdir: N
Rngdir: E
Latitude: 38.48787
Longitude: -90.39671
Utm x: 727063.28169
Utm y: 4262951.93675

Quadmap na:MAXVILLEOhio code:38090D4Llmeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Horn, J.B. Not Reported Driller: Ehlers, H.T. Leasenam: Drldate: 1947/09/05 Permit: Not Reported Logdate: 1947/10/20 Logger: French, E.F.

Elev: 608

Elevbase: S Prodyld: 1

Gpmcfs: G
Depthbed: 50

Sampsav: 0 Swla: 135

Swlb: Not Reported

Water at: 90'

Totdepth: 371 Formation: ST LOUIS LIMESTONE

Formation1: KEOKUK LIMESTONE

Intcrdtp: 0

06

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Not Reported Probind3: Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: Ν 1500' E OF BUTLER HILL & TESSON FERRY RDS Remarks: C total: C plugind: Ν C remarks: Not Reported Construction Information: Well type: 009708 Private Well ld: 194709 Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 49 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Ν Szcashol: 0 Szbelcas: 6.25 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 Pumptdh: 0 Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: ST LOUIS LIMESTONE KEOKUK LIMESTONE Formation1: Strata Information: 009708 Stratordr: 0 ld: Fmtop: 0 Fmbot: 50 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin: Secocc:

Not Reported

Minrmin:

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 009708 Fmtop: 50

Fmbot: 371

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

 Primmin:
 Not Reported

 Primocc:
 0

 Secmin:
 Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 009708 Stratordr: 30800

Fmtop: 50 Fmbot: 310

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Stratordr: 30900

Fmtop: 50 Fmbot: 90

Formation : ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: Not Reported Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Stratordr: 31000

Fmtop: 90 Fmbot: 245

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Fmtop: 90

Fmbot: 245

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Stratordr: 31200

Fmtop: 245 Fmbot: 310

Formation: WARSAW FORMATION

Primlith: SHALE Seclith: LIMESTONE

Seclith: LIMESTONE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Stratordr: 31800

Fmtop: 310 Fmbot: 371

Formation : OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Stratordr: 31900

Fmtop: 310 Fmbot: 371

Formation: KEOKUK LIMESTONE

Primlith: CHERT

Seclith: LIMESTONE Minlith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

Minlith:

99900

Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 009708 Fmtop: 371

Fmbot: 371

Formation : TOTAL DEPTH

Primlith: Not Reported

Seclith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported Secocc: 0

Minrmin: Not Reported Minrocc: 0

Rmk20: Not Reported

K30 WSW FED USGS USGS40000693806

1/2 - 1 Mile Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382916090234801 Monloc name: T43N R06E 06CCA1

Monloc type: Well

Monloc desc: Not Reported Huc code: 07140102

Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported 38.4878315 Contrib drainagearea units: Not Reported Latitude: -90.3967856 Longitude: 24000 Sourcemap scale: Horiz Acc measure: 1 Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 582 Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation

Aquifer type: Not Reported

Construction date: 19640000 Welldepth: 350

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1964-07-01 80

K31
WSW
MO WELLS MOLOG1000016664

WSW 1/2 - 1 Mile Higher

Id:023013Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Utm x:
 727060.09398

 Utm y:
 4262894.06172

 Latitude:
 38.48735

 Longitude:
 -90.39676

Qtr3: C Qtr2: SW

 Qtr1:
 SW

 Section:
 6

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Ε Rngdir: Plssx: 727545 Plssy: 4263534 Location p: 118 599 Elev: Idnum: 23013 Swl: 80

Quadrangle: MAXVILLE Site id: MOLOG1000016664

Header Information:

 Id:
 023013
 Well type:
 Private Well

 Agencyname:
 GEOLOGICAL SURVEY (DGLS) County:
 ST. LOUIS

 Fips:
 189
 Stname:
 MISSOURI

Stabbrev: MO Qtr3: С SW Qtr2: SW Qtr1: 06 Tnsp: 43 Section: Tnspdir: Ν Rng: 06

Rngdir: E

 Latitude:
 38.48735

 Longitude:
 -90.39676

 Utm x:
 727060.09398

 Utm y:
 4262894.06172

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Not Reported Typelog2: Not Reported Typelog3: Ownerind: Owner: Buselaki, Mrs. Joe Not Reported Weber Co Leasenam: Driller: 1964/07/14 Not Reported Drldate: Permit: 1965/01/19 Groves, H.M. Logdate: Logger:

Elev: 599

Elevbase: S Prodyld: 5

Gpmcfs: G Depthbed: 45

Sampsav: 0 Swla: 80

Swlb: Not Reported

Water at: Not Reported

Totdepth: 350 Formation: SALEM FORMATION

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Intcrdtp: 0

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: MWY 21 & KELLER RD, 1.25 MI FROM HWY 21 (5795 KLLER RD) Remarks: C total: C plugind: C remarks: Not Reported Construction Information: Well type: 023013 Private Well ld: 196407 Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 30 Cas1diam: 6.25 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Ν Szcashol: 0 Szbelcas: 6 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 Pumptdh: 0 Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Not Reported Oilprod: Not Reported Gasprod: Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: SALEM FORMATION KEOKUK-BURLINGTON LS. UNDIFF Formation1: Strata Information: 023013 Stratordr: 0 ld: Fmtop: 0 Fmbot: 45 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin: Secocc:

Not Reported

Minrmin:

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 023013 Fmtop: 45

Fmbot: 350

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 30800

Fmtop: 45 Fmbot: 275

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0
Minrmin: Not Reported

Minroco:

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 31000

Fmtop: 45 Fmbot: 190

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 31000

Fmtop: 45 Fmbot: 190

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 31200

Fmtop: 190 Fmbot: 275

Formation: WARSAW FORMATION

Primlith: LIMESTONE

Seclith: LIMESTONE Minlith: DOLOMITE

Primmin: ZnS Primocc: 1

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 31800

Fmtop: 275 Fmbot: 350

Formation : OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 32200

Fmtop: 275 Fmbot: 350

Formation: KEOKUK-BURLINGTON LS. UNDIFF

Primlith: CHERT

Seclith: LIMESTONE Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 023013 Stratordr: 99900

 Fmtop:
 350

 Fmbot:
 350

Formation: TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrocc:

Rmk20: Not Reported

K32 WSW 1/2 - 1 Mile **FED USGS** USGS40000693798

Higher

USGS-MO Org. Identifier:

USGS Missouri Water Science Center Formal name:

Monloc Identifier: USGS-382914090234801 Monloc name: T43N R06E 06CCC1

Monloc type: Well

Not Reported Monloc desc:

07140102 Huc code: Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.487276 Latitude: -90.3967856 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 580 Vert measure units: feet Vertacc measure val: 5

feet Vert accmeasure units:

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode:

Aquifername: Ozark Plateaus aquifer system

Warsaw Formation Formation type: Aquifer type: Not Reported

19510000 Construction date: Welldepth: 345

Welldepth units: Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1951-09-01 120

33 WSW **MO WELLS** MOLOG1000016640

1/2 - 1 Mile Higher

> 011803 Located: Υ Notenough: Not Reported Scale: 24k **MISSOURI** Locator: Michael Lemon - Interpolated Stname: MO ST. LOUIS County:

Stabbrev:

726968.0315 Utm x: Utm y: 4262812.37414 Latitude: 38.48664 -90.39784 Longitude:

SW Qtr3: SW Qtr2:

Qtr1: SW US

Section: 6 Tnsp: 43

Tnspdir: Not Reported

Rng: 6 Rngdir: Ε 727545 Plssx: Plssy: 4263534 Location p: 59 588 Elev: 11803 Idnum: Swl: 120

Quadrangle: MAXVILLE Site id: MOLOG1000016640

Header Information:

011803 Well type: Private Well GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS Agencyname: Fips: 189 Stname: **MISSOURI** Stabbrev: MO Qtr3: SW SW Qtr1: SW Qtr2: Section: 06 Tnsp: 43 Tnspdir: Ν Rng: 06

Rngdir: E
Latitude: 38.48664
Longitude: -90.39784
Utm x: 726968.0315
Utm y: 4262812.37414

Quadmap na:MAXVILLEOhio code:38090D4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Not Reported Typelog3: Not Reported Typelog2: Ownerind: Owner: Buselaki, Joe Leasenam: Not Reported Driller: Weber Fogg 1951/09/30 Not Reported Drldate: Permit: Logdate: 1952/05/15 Marinkovic, S. Logger:

Elev: 588

Elevbase: S Prodyld: 20

Gpmcfs: G

Depthbed: 24

Sampsav: 0 Swla: 120

Swlb: Not Reported

Water at: 130'

Totdepth: 345 Formation: ST LOUIS LIMESTONE

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Intcrdtp: 0

Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Probind1: Not Reported Probind2: Not Reported Not Reported Not Reported Probind3: Additional: Alagncy1: Not Reported Add databa: Not Reported Not Reported Not Reported Addition 1: Add data 1: Not Reported Not Reported Alnum2: Add data 2:

Add data 3: Not Reported Rmkind: N

Remarks: 1.25 MI FROM HWY 21 ON KELLER RD

C total: 24 C plugind: N

C remarks: Not Reported

Construction Information:

Id:011803Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS)Datecomp:195109Plugind:NDateplug:Not ReportedCasemat1:Not ReportedCasemat2:Not Reported

Cas1dpth: 24 6.25 Cas1diam: Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0

Inout1:ITypgrt1:Not ReportedTypgrt2:Not ReportedTypgrt3:Not ReportedMthgrout:Not ReportedRigtype:Not ReportedWeltreat:Not ReportedRmkind:Not Reported

Dateabnd: Not Reported

Plgdpt1b: 0 0 Plgdpt1t: Ν Multcase: 0 Szcashol: Szbelcas: 6 Sizscrn: 0 0 Slotsize: Lenscrn: 0

Typescrn: Not Reported Typedev: Not Reported

Typepump: Not Reported

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Typecomp: Not Reported

Perfintt: 0

Perfintb: 0

Oilprod:Not ReportedGasprod:Not ReportedTubepres:Not ReportedRemarks:Not Reported

Other data: Not Reported Formation : ST LOUIS LIMESTONE

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Strata Information:

ld: 011803 Stratordr: 0

Fmtop: 0 Fmbot: 24

Formation: NO SAMPLES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011803 Fmtop: 24

Fmbot: 345

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 011803 Stratordr: 30800

Fmtop: 24 Fmbot: 260

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011803 Stratordr: 30900

Fmtop: 24 Fmbot: 45

Formation : ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011803 Stratordr: 31000

Fmtop: 45 Fmbot: 170

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

 Id:
 011803
 Stratordr:

 Fmtop:
 45

Fmbot: 170

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: DOLOMITE

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011803 Stratordr: 31200

Fmtop: 170 Fmbot: 260

Formation: WARSAW FORMATION

Primlith: DOLOMITE

Seclith: LIMESTONE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011803 Stratordr: 31800

Fmtop: 260 Fmbot: 345

Formation: OSAGEAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011803 Stratordr: 32200

 Fmtop:
 260

 Fmbot:
 345

Formation : KEOKUK-BURLINGTON LS. UNDIFF

Primlith: LIMESTONE

Seclith: CHERT Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

Minlith:

99900

Not Reported

Minrocc:

Rmk20: Not Reported

Strata Information:

011803 ld: Fmtop: 345

Fmbot: 345

Formation: TOTAL DEPTH Not Reported Primlith:

Not Reported Seclith:

Not Reported Primmin:

Primocc:

Secmin: Not Reported Secocc: 0 Minrmin: Not Reported

Minrocc: 0 Rmk20: Not Reported

34 NW **MO WELLS** MOLOG1000016911 1/2 - 1 Mile

Lower

Υ 006870 Located: ld: Notenough: Not Reported Scale: 24k MISSOURI Locator: Michael Lemon - Interpolated Stname: ST. LOUIS County:

Stabbrev: MO

Utm x: 726994.59385 4264495.06172 Utm y: Latitude: 38.50178 Longitude: -90.39699

SW SW Qtr2: Qtr3:

SW Qtr1: Section: 31 Tnsp: 44

Not Reported Tnspdir:

Rng: 6 Е Rngdir: Plssx: 727643 Plssy: 4265133 50 Location p: 567 Elev: 6870 Idnum: Swl:

Quadrangle: **KIRKWOOD** Site id: MOLOG1000016911

Rng:

Header Information:

Private Well Well type: GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS MISSOURI 189 Stname: Fips: MO Qtr3: SW Stabbrev: SW SW Qtr2: Qtr1: Section: 31 Tnsp: 44

Tnspdir: Ν Rngdir: Е

Latitude: 38.50178 Longitude: -90.39699 06

 Utm x:
 726994.59385

 Utm y:
 4264495.06172

Quadmap na:KIRKWOODOhio code:38090E4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported

Ownerind: 0 Owner: Steffan, Michael J. - Well #1

Leasenam:Not ReportedDriller:Ehlers, H.Drildate:1941/05/15Permit:Not ReportedLogdate:1941/06/06Logger:Hundhausen

Elev: 567

Elevbase: S Prodyld: 0.5

Gpmcfs: G Depthbed: 40

Sampsav: 0 Swla: Not Reported

Swlb: Not Reported

Water at: 360-409' (SALT WATER)

Totdepth: 409 Formation: SALEM FORMATION

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Interdtp: 0
Interdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Probind1: Not Reported Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Not Reported Alnum2: Add data 2:

Add data 3: Not Reported Rmkind: Y
Remarks: 1 MI W OF TESSON RD ON SCHUESSLER RD; PLUGGED BACK TO 360'
C total: 0 C plugind: Not Reported

C remarks: Not Reported

Strata Information:

ld: 006870 Stratordr: 0

Fmtop: 0 Fmbot: 40

Formation: NO SAMPLES
Primilith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006870 Stratordr: 28400

Fmtop: 40 Fmbot: 409

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

30800

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 006870 Fmtop: 40

Fmbot: 270

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 006870 Stratordr: 31000

Fmtop: 40 Fmbot: 170

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: BaSO4
Primocc: 2
Secmin: ZnS
Secocc: 1

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006870 Stratordr: 31000

Fmtop: 40 Fmbot: 170

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: BaSO4
Primocc: 2
Secmin: ZnS
Secocc: 1

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006870 Stratordr: 31200

Fmtop: 170 Fmbot: 270

Formation: WARSAW FORMATION

Primlith: SHALE

Seclith: LIMESTONE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31800

Minrocc:

Rmk20: Not Reported

Strata Information:

006870 ld:

Fmtop: 270 Fmbot: 409

Formation: **OSAGEAN SERIES**

Not Reported Primlith:

Not Reported Minlith: Not Reported Seclith:

Not Reported Primmin: Primocc: Secmin: Not Reported Secocc: 0 Not Reported Minrmin: Minrocc: 0

Strata Information:

Rmk20:

006870 32200 ld: Stratordr:

Fmtop: 270 Fmbot:

KEOKUK-BURLINGTON LS. UNDIFF Formation:

Not Reported

CHERT Primlith:

LIMESTONE **DOLOMITE** Seclith: Minlith:

Primmin: Not Reported

Primocc:

Not Reported Secmin:

Secocc: 0

Not Reported Minrmin:

Minrocc:

Rmk20: Not Reported

Strata Information:

ld: 006870 Stratordr: 99900

Fmtop: 409 409 Fmbot:

TOTAL DEPTH Formation: Not Reported Primlith:

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

0 Primocc:

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc:

Rmk20: Not Reported

Remarks:

006870 Feature: WP Н Agency: GS Fileid:

Remarks: Not Reported

L35 NW 1/2 - 1 Mile **FED USGS** USGS40000693944

Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-383010090235001 Monloc name: T44N R06E 31CCB2

Monloc type: Well

Monloc desc: Not Reported Huc code: 07140102

Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.5028315 Latitude: -90.397341 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 567 Vert measure units: 567 Vert measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation

Aquifer type: Not Reported

Construction date: 19410000 Welldepth: 409

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

M36
East MO WELLS MOLOG1000016742

1/2 - 1 Mile Higher

> ld: 011210 Located: Υ 24k Notenough: Not Reported Scale: Michael Lemon - Interpolated **MISSOURI** Locator: Stname: Stabbrev: MO County: ST. LOUIS

Utm x: 729488.40513 Utm y: 4263453.25096 Latitude: 38.49176

Latitude: 38.49176 Longitude: -90.36876

Qtr3: NW Qtr2: NW

 Qtr1:
 SE

 Section:
 5

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Rngdir: Ε Plssx: 729948 4262980 Plssy: Location p: 5 Elev: 586 Idnum: 11210 Swl: 75

Quadrangle: OAKVILLE Site id: MOLOG1000016742

Header Information:

011210 Well type: Private Well GEOLOGICAL SURVEY (DGLS) County: Agencyname: ST. LOUIS **MISSOURI** Fips: Stname: Stabbrev: NW MO Qtr3: NW Qtr1: SE Qtr2: Tnsp: Section: 05 43 Tnspdir: Ν Rng: 06

Rngdir: E

Latitude: 38.49176
Longitude: -90.36876
Utm x: 729488.40513
Utm y: 4263453.25096

Quadmap na:OAKVILLEOhio code:38090D3LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Not Reported Typelog2: Not Reported Typelog3: Owner: Ownerind: 0 Cook Not Reported Leasenam: Driller: **Ehlers** 1947// Drldate: Permit: Not Reported Logdate: 1950/01/31 McNeal Logger:

Elev: 586

Elevbase: S Prodyld: 5

Gpmcfs: G Depthbed: 40

Sampsav: 0 Swla: 75

Swlb: Not Reported

Water at: Not Reported

Totdepth: 263 Formation : ST LOUIS LIMESTONE

Formation1: WARSAW FORMATION

Interdtp: 0
Interdbt: 0

Not Reported Aquclass: Not Reported Drawdown: Confind: Reldate: Not Reported 0 Probind1: Not Reported Probind2: Not Reported Probind3: Not Reported Additional: Not Reported Not Reported Add databa: Not Reported Alagncy1: Not Reported Not Reported Addition 1: Add data 1: Not Reported Not Reported Alnum2: Add data 2:

Add data 3: Not Reported Rmkind: N

Remarks: AMBS RD AND BUTLER HILL RD

C total: 42 C plugind: N

C remarks: Not Reported

Construction Information:

Id:011210Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS)Datecomp:194700Plugind:NDateplug:Not ReportedCasemat1:Not ReportedCasemat2:Not Reported

 Cas1dpth:
 42

 Cas1diam:
 0

 Cas2dpth:
 0

 Cas2diam:
 0

 Cas3dpth:
 0

 Cas3diam:
 0

Cas4dpth: 0 Cas4diam: 0

Inout1: 0 Typgrt1: Not Reported Not Reported Not Reported Typgrt2: Typgrt3: Not Reported Mthgrout: Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported

Dateabnd: Not Reported

 Plgdpt1b:
 0

 Plgdpt1t:
 0

 Multcase:
 N

 Szcashol:
 0

 Szbelcas:
 0

 Sizscrn:
 0

 Slotsize:
 0

 Lenscrn:
 0

Typescrn: Not Reported Typedev: Not Reported

Typepump: Not Reported

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Typecomp: Not Reported

Perfintt: 0 Perfintb: 0

Oilprod:Not ReportedGasprod:Not ReportedTubepres:Not ReportedRemarks:Not Reported

Other data: Not Reported Formation : ST LOUIS LIMESTONE

Formation1: WARSAW FORMATION

Strata Information:

ld: 011210 Stratordr: 0 Fmtop: 130

Fmbot: 150

Formation: NO SAMPLES
Primlith: Not Reported
Seclith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported Primocc: 0

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 011210 Stratordr: 0

Fmtop: 0 Fmbot: 40

Formation : NO SAMPLES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

28400

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011210 Fmtop: 40

Fmbot: 263

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 011210 Stratordr: 30800

Fmtop: 40 Fmbot: 263

Formation : MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011210 Stratordr: 30900

Fmtop: 40 Fmbot: 105

Formation : ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: Not Reported Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011210 Stratordr: 31000

Fmtop: 105 Fmbot: 255

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith: DOLOMITE

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 011210 Fmtop: 105

Fmbot: 255

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: CHERT Minlith:

Primmin: Not Reported

Primocc: 0

 Secmin:
 Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 011210 Stratordr: 31200

Fmtop: 255 Fmbot: 263

Formation: WARSAW FORMATION

Primlith: SHALE

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 011210 Stratordr: 99900

Minlith:

Fmtop: 263 Fmbot: 263

Formation: TOTAL DEPTH

Primlith: Not Reported Seclith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

MO WELLS

MOLOG1000016932

Not Reported

31000

DOLOMITE

L37 NW 1/2 - 1 Mile Higher

TC4085433.2s Page A-100

Id:006836Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Utm x:
 726895.3749

 Utm y:
 4264590.87427

 Latitude:
 38.50267

 Longitude:
 -90.3981

Qtr3: NW Qtr2: SW

 Qtr1:
 SW

 Section:
 31

 Tnsp:
 44

Tnspdir: Not Reported

Rng: 6 Ε Rngdir: 727643 Plssx: Plssy: 4265133 50 Location p: 566 Elev: Idnum: 6836 Swl: 0

Quadrangle: KIRKWOOD Site id: MOLOG1000016932

Header Information:

Private Well 006836 Well type: Agencyname: GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS **MISSOURI** Fips: Stname: Stabbrev: MO Qtr3: NWQtr2: SW Qtr1: SW

 Qtr2:
 SW
 Qtr1:
 SW

 Section:
 31
 Tnsp:
 44

 Tnspdir:
 N
 Rng:
 06

 Rngdir:
 E
 6

Latitude: 38.50267 Longitude: -90.3981 Utm x: 726895.3749 Utm y: 4264590.87427

Quadmap na:KIRKWOODOhio code:38090E4LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Laumann, Frank

Leasenam: Not Reported Driller: Haverstick Well & Equipment

Drldate: 1941// Permit: Not Reported Logdate: Not Reported Logger: Grohskopf

Elev: 566

Elevbase: S Prodyld: Not Reported

Gpmcfs: Not Reported

Depthbed: 50

Sampsav: 0 Swla: Not Reported

Swlb: Not Reported

Water at: Not Reported

Totdepth: 305 Formation: SALEM FORMATION

Formation1: KEOKUK-BURLINGTON LS. UNDIFF

Intcrdtp: 0

Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Probind3: Not Reported Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported

Add data 3: Not Reported Rmkind: N

Remarks: ON SCHUESSLER RD NEAR MERAMEC RIVER

C total: 0 C plugind: Not Reported

C remarks: Not Reported

Strata Information:

ld: 006836 Stratordr: 0

Fmtop: 0

Fmbot: 50

Formation: NO SAMPLES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 28400

Fmtop: 50 Fmbot: 305

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 30800

Fmtop: 50 Fmbot: 240

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

Id: 006836 Fmtop: 50

Fmbot: 150

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0

Minrmin: Not Reported Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 31000

Fmtop: 50 Fmbot: 150

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 31200

Fmtop: 150 Fmbot: 240

Formation: WARSAW FORMATION

Primlith: SHALE

Seclith: LIMESTONE Minlith: CHERT

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 31800

 Fmtop:
 240

 Fmbot:
 305

Formation: OSAGEAN SERIES
Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 32200

Fmtop: 240 Fmbot: 305

Formation: KEOKUK-BURLINGTON LS. UNDIFF

Primlith: CHERT

Seclith: LIMESTONE Minlith: DOLOMITE

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 006836 Stratordr: 99900

 Fmtop:
 305

 Fmbot:
 305

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

M38
East FED USGS USGS40000693846

1/2 - 1 Mile Higher

Org. Identifier: USGS-MO

Formal name: USGS Missouri Water Science Center

Monloc Identifier: USGS-382933090220601 Monloc name: T43N R06E 05DBB2

Monloc type: Well

Monloc desc: Not Reported

Huc code: 07140102 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 38.4925536 Latitude: Longitude: -90.3684513 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 592
Vert measure units: feet Vertacc measure val: 5

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Ozark Plateaus aquifer system

Formation type: Warsaw Formation

Not Reported Aquifer type:

Construction date: 19470000 Welldepth: 263

Welldepth units: Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1947-01-01 75

MO WELLS MOLOG1000016715 **East**

1/2 - 1 Mile Higher

> 003563 Located: Notenough: 24k Not Reported Scale: MISSOURI Locator: Michael Lemon - Interpolated Stname: ST. LOUIS County:

Stabbrev: MO

Utm x: 729505.06121 Utm y: 4263311.34443 38.49048 Latitude: -90.36862 Longitude:

Qtr3: С Qtr2: NW

Qtr1: SE Section: 5 43 Tnsp:

Tnspdir: Not Reported

Rng: 6 Rngdir: Ε 729948 Plssx: 4262980 Plssy: Location p: 9 Elev: 590 Idnum: 3563 Swl: 65

OAKVILLE MOLOG1000016715 Quadrangle: Site id:

Header Information:

003563 Well type: Private Well Agencyname: GEOLOGICAL SURVEY (DGLS) County: ST. LOUIS Stname: **MISSOURI** 189 Fips:

Stabbrev: Qtr3: MO С Qtr2: NW Qtr1: SE Section: 05 Tnsp: 43 Tnspdir: Ν 06 Rng:

Rngdir: Ε 38.49048 Latitude: Longitude: -90.36862 729505.06121 Utm x: Utm y: 4263311.34443

OAKVILLE Quadmap na: Ohio code: 38090D3 D Scale: 24k Llmeas: Locator: Interpolated Typelog1: D Typelog3: S Typelog2: Not Reported

Owner: Ownerind: Sevedge Driller: Leasenam: Not Reported Flamm, Edwin Drldate: 1936/03/27 Permit: Not Reported

Logdate: Not Reported Logger: Grohskopf / Haseltine

Elev: 590 Elevbase: S Prodyld: 1.6

Gpmcfs: G Depthbed: 30

Sampsav: 0 Swla: 65

Swlb: Not Reported Water at: Not Reported

Totdepth: 203 Formation: ST LOUIS LIMESTONE

Formation1: SALEM FORMATION

Interdip: 0

Intcrdbt: 0

Drawdown: Not Reported Aquclass: Not Reported Confind: 0 Reldate: Not Reported Probind1: Not Reported Probind2: Not Reported Not Reported Additional: Not Reported Probind3: Not Reported Add databa: Alagncy1: Not Reported Addition 1: Not Reported Add data 1: Not Reported Not Reported Not Reported Alnum2: Add data 2:

Add data 3: Not Reported Rmkind: N

Remarks: JUST W OF MICHAELS (#3556) ON SUTLER HILL RD C total: 35 C plugind:

C total. 55 C plugina.

C remarks: Not Reported

Construction Information:

Id:003563Well type:Private WellAgencyname:GEOLOGICAL SURVEY (DGLS)Datecomp:193603Plugind:NDateplug:Not ReportedCasemat1:Not ReportedCasemat2:Not Reported

Cas1dpth: 35 Cas1diam: 6 Cas2dpth: 0 Cas2diam: 0 0 Cas3dpth: Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0

Not Reported Inout1: 0 Typgrt1: Not Reported Typgrt3: Typgrt2: Not Reported Mthgrout: Not Reported Rigtype: Not Reported Rmkind: Weltreat: Not Reported Not Reported

Dateabnd: Not Reported

 Plgdpt1b:
 0

 Plgdpt1t:
 0

 Multcase:
 N

 Szcashol:
 0

 Szbelcas:
 6

 Sizscrn:
 0

 Slotsize:
 0

Typescrn: Not Reported Typedev:

Typepump: Not Reported

0

Pumpcap: 0 Pumptdh: 0 Pumpset: 0

Lenscrn:

Not Reported

Ν

Typecomp: Not Reported

Perfintt: 0 Perfintb: 0

 Oilprod:
 Not Reported
 Gasprod:
 Not Reported

 Tubepres:
 Not Reported
 Remarks:
 Not Reported

Other data: Not Reported Formation : ST LOUIS LIMESTONE

Formation1: SALEM FORMATION

Strata Information:

ld: 003563 Stratordr: 0

Fmtop: 0

Fmbot: 30

Formation : NO SAMPLES Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003563 Stratordr: 28400

Fmtop: 30 Fmbot: 203

Formation: MISSISSIPPIAN SYSTEM

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003563 Stratordr: 30800

Fmtop: 30 Fmbot: 203

Formation: MERAMECIAN SERIES

Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003563 Stratordr: 30900

Fmtop: 30 Fmbot: 120

Formation: ST. LOUIS LIMESTONE

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported Secocc: 0

Minrmin: Not Reported

TC4085433.2s Page A-107

Stratordr:

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003563 Fmtop: 120

Fmbot: 203

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: ZnS Primocc: 1

 Secmin:
 Not Reported

 Secocc:
 0

 Minrmin:
 Not Reported

 Minrocc:
 0

 Rmk20:
 Not Reported

Strata Information:

ld: 003563 Stratordr: 31000

Fmtop: 120 Fmbot: 203

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: ZnS Primocc: 1

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 003563 Stratordr: 99900

Fmtop: 203 Fmbot: 203

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primoce: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

40 East 1/2 - 1 Mile Higher

MO WELLS MOLOG1000016779

Id:010654Located:YNotenough:Not ReportedScale:24kLocator:Michael Lemon - InterpolatedStname:MISSOURIStabbrev:MOCounty:ST. LOUIS

 Utm x:
 729520.15519

 Utm y:
 4263693.40768

 Latitude:
 38.49391

 Longitude:
 -90.36832

Qtr3: SW Qtr2: SW

 Qtr1:
 NE

 Section:
 5

 Tnsp:
 43

Tnspdir: Not Reported

Rng: 6 Ε Rngdir: Plssx: 729948 4262980 Plssy: Location p: 5 565 Elev: Idnum: 10654 Swl: 50

Quadrangle: OAKVILLE Site id: MOLOG1000016779

Header Information:

 Id:
 010654
 Well type:
 Private Well

 Agencyname:
 GEOLOGICAL SURVEY (DGLS) County:
 ST. LOUIS

 Fips:
 189
 Stname:
 MISSOURI

 Stabbrev:
 MO
 Qtr3:
 SW

 Qtr2:
 SW
 Qtr1:
 NE

 Section:
 05
 Tnsp:
 43

 Tnspdir:
 N
 Rng:
 06

 Rngdir:
 E
 6

Latitude: 38.49391 Longitude: -90.36832 Utm x: 729520.15519 Utm y: 4263693.40768

Quadmap na:OAKVILLEOhio code:38090D3LImeas:DScale:24kLocator:InterpolatedTypelog1:S

Typelog2: Not Reported Typelog3: Not Reported Ownerind: Owner: Kemper, T.J. - Well #1

Leasenam:Not ReportedDriller:Ehlers, H.L.Drldate:1947/04/Permit:Not ReportedLogdate:1949/03/09Logger:McNeal

Elev: 565

Elevbase: S Prodyld: 8

Gpmcfs: G Depthbed: 50

Sampsav: 0 Swla: 50

Swlb: Not Reported

Water at: 224'

Totdepth: 224 Formation : ST LOUIS LIMESTONE

Formation1: SALEM FORMATION

Intcrdtp: 0

Intcrdbt: Drawdown: Not Reported Aquclass: Not Reported Confind: Reldate: Not Reported Not Reported Not Reported Probind1: Probind2: Not Reported Probind3: Additional: Not Reported Alagncy1: Not Reported Add databa: Not Reported Addition 1: Not Reported Add data 1: Not Reported Alnum2: Not Reported Add data 2: Not Reported Add data 3: Not Reported Rmkind: Ν 0.25 MI N OF JCT OF BUTLER HILL RD & KERTH RD Remarks: C total: C plugind: Ν C remarks: Not Reported Construction Information: Well type: 010654 Private Well ld: 194704 Agencyname: GEOLOGICAL SURVEY (DGLS) Datecomp: Plugind: Dateplug: Not Reported Casemat1: Not Reported Not Reported Casemat2: Cas1dpth: 49 Cas1diam: 6 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0 Cas4dpth: 0 Cas4diam: 0 Inout1: 0 Typgrt1: Not Reported Not Reported Typgrt3: Not Reported Typgrt2: Mthgrout: Not Reported Rigtype: Not Reported Weltreat: Not Reported Rmkind: Not Reported Dateabnd: Not Reported Plgdpt1b: 0 0 Plgdpt1t: Multcase: Ν Szcashol: 0 Szbelcas: 0 Sizscrn: 0 Slotsize: 0 Lenscrn: 0 Typescrn: Not Reported Typedev: Not Reported Typepump: Not Reported Pumpcap: 0 Pumptdh: 0 Pumpset: 0 Typecomp: Not Reported Perfintt: Perfintb: 0 Oilprod: Not Reported Gasprod: Not Reported Tubepres: Not Reported Remarks: Not Reported Other data: Not Reported Formation: ST LOUIS LIMESTONE SALEM FORMATION Formation1: Strata Information: 010654 Stratordr: 0 ld: Fmtop: Fmbot: 50 NO SAMPLES Formation: Primlith: Not Reported Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: 0 Not Reported Secmin: Secocc:

Not Reported

Minrmin:

Strata Information: 010654 28400 Stratordr: ld: Fmtop: 50 Fmbot: 224 Formation: MISSISSIPPIAN SYSTEM Not Reported Primlith: Not Reported Minlith: Not Reported Seclith: Primmin: Not Reported Primocc: Secmin: Not Reported 0 Secocc: Not Reported Minrmin: Minrocc: 0 Rmk20: Not Reported Strata Information: 010654 30800 ld: Stratordr: Fmtop: 50 Fmbot: 224 Formation: MERAMECIAN SERIES Not Reported Primlith: Seclith: Not Reported Minlith: Not Reported Primmin: Not Reported Primocc: Not Reported Secmin: Secocc: Not Reported Minrmin:

Not Reported

Strata Information:

Minrocc: Rmk20:

Minrocc: Rmk20:

ld: 010654 Stratordr: 30900

Fmtop: 50

Fmbot: 120

Formation: ST. LOUIS LIMESTONE

Not Reported

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 010654 Stratordr: 31000

Fmtop: 120 Fmbot: 224

Formation : SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported Primocc: 0

Secmin: Not Reported

Secocc: 0

Stratordr:

31000

Minrocc: 0

Rmk20: Not Reported

Strata Information:

ld: 010654 Fmtop: 120

Fmbot: 224

Formation: SALEM FORMATION

Primlith: LIMESTONE

Seclith: DOLOMITE Minlith: CHERT

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:

ld: 010654 Stratordr: 99900

 Fmtop:
 224

 Fmbot:
 224

Formation : TOTAL DEPTH Primlith: Not Reported

Seclith: Not Reported Minlith: Not Reported

Primmin: Not Reported

Primocc: 0

Secmin: Not Reported

Secocc: 0

Minrmin: Not Reported

Minrocc: 0

Rmk20: Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
63128	01/14/08	2.7
63128	01/22/09	1
63128	01/28/05	3.9
63128	01/29/09	8.8
63128	01/31/09	????
63128	02/02/08	7.4
63128	02/02/09	4.7
63128	02/06/09	????
63128	02/10/09	14.2
63128	03/24/08	9.9
63128	03/24/08	21.7
63128	03/27/06	11.7
63128	03/28/08	4
63128	03/29/08	2.2
63128	04/07/05	3.4
63128	04/07/08	0.8
63128	04/10/08	1.6
63128	04/13/07	0.8
63128	04/14/08	8.7
63128	04/20/07	3.1
63128	02/28/09	2.8
63128	03/03/09	< 0.3
63128	03/06/08	12.4
63128	03/14/05	1
63128	03/17/08	25
63128	05/21/07	10.1
63128	06/04/08	????
63128	06/11/07	< 0.3
63128	07/12/06	13.3
63128	07/13/06	5.4
63128	07/18/08	1.3
63128	08/02/05	1.8
63128	08/03/07	3.7
63128	08/08/05	3. <i>1</i> 1.4
63128	08/11/08	1.3
63128	08/15/06	3.3
63128	08/15/08	ა.ა 12.1
63128	08/16/08	1.4
63128	08/16/08	2.8
63128	08/21/07	0.9
63128	09/02/08	1.6
63128	09/02/08	2.6
63128	09/02/08	2.8
63128	09/05/08	7.9
63128	09/08/08	1.1
63128	09/09/06	2.4
63128		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	09/11/08	????
63128	09/15/08	0.7
63128	06/16/07	24.3
63128	06/16/08	10.5
63128	06/22/07	0.6
63128	06/30/08	1.6
63128	05/02/08	8.9
63128	05/14/08	17
63128	10/20/07	7.8
63128	11/14/08	23.1
63128	11/21/08	20.7
63128	11/24/04	5.5
63128	11/26/04	2.5
63128	11/28/08	8.6
63128	11/28/08	????
63128	12/02/08	6
63128	12/13/08	4.5
63128	12/29/08	3.8

Federal EPA Radon Zone for ST. LOUIS County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 63128

Number of sites tested: 13

Area Average Activity % <4 pCi/L %		
Living Area - 2nd Floor Not Reported Not Rep	0% Not Reported	0% Not Reported 0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Missouri Public Drinking Water Wells

Source: Department of Natural Resources

Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 573-368-2143

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Metlife - NGA

13045 Tesson Ferry Road Saint Louis, MO 63128

Inquiry Number: 4085433.4

September 26, 2014

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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TARGET QUAD

NAME: KIMMSWICK

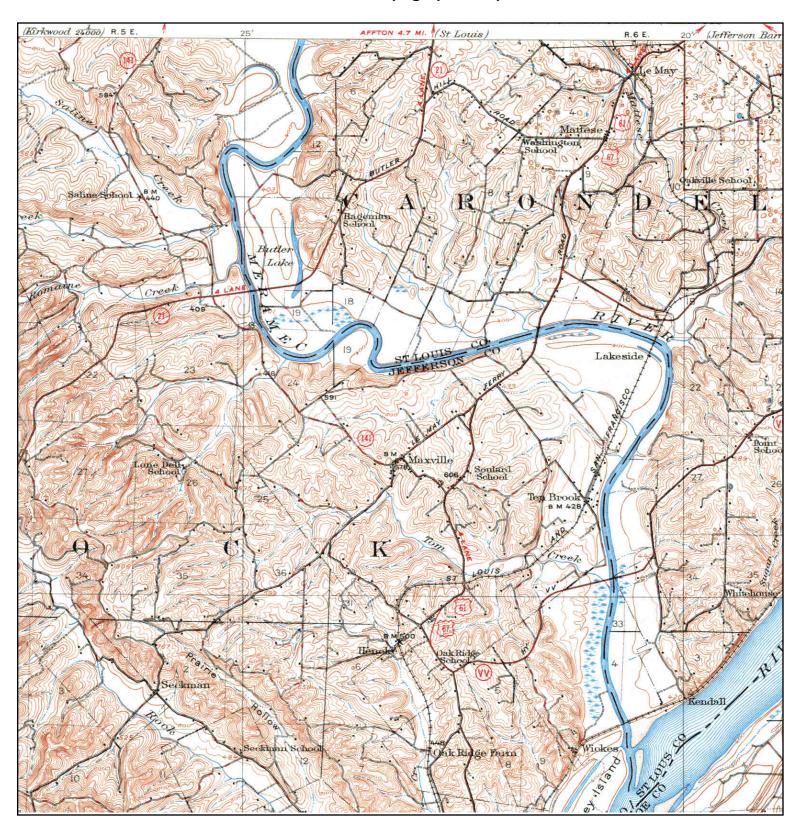
MAP YEAR: 1916

SERIES: 15 SCALE: 1:62500 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





TARGET QUAD

NAME: KIMMSWICK MAP YEAR: 1948

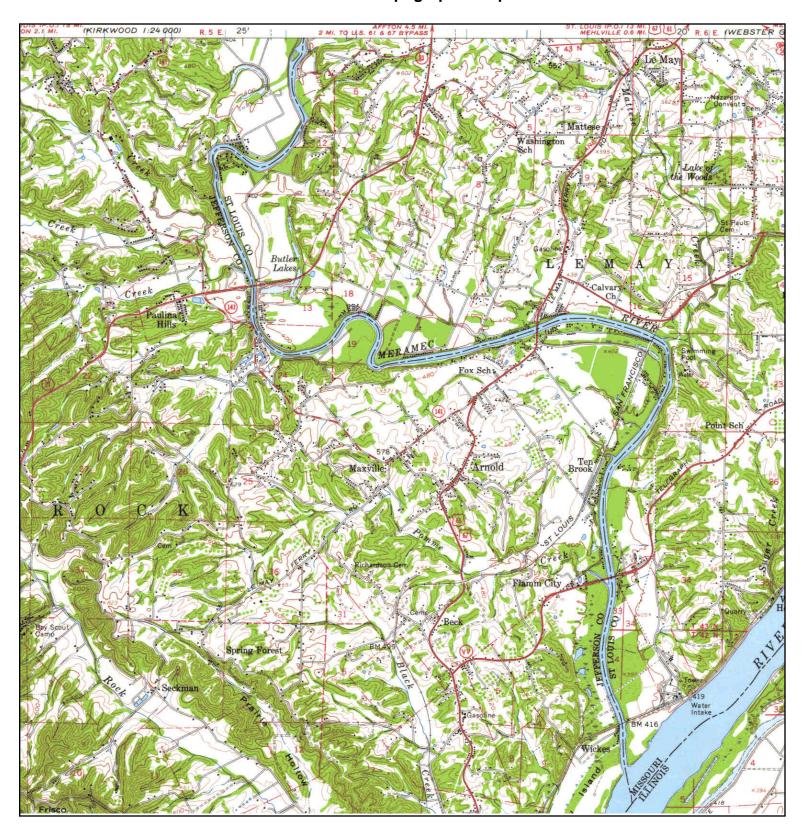
CORRECTED FROM :1916

SERIES: 15 SCALE: 1:62500 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





TARGET QUAD

NAME: KIMMSWICK

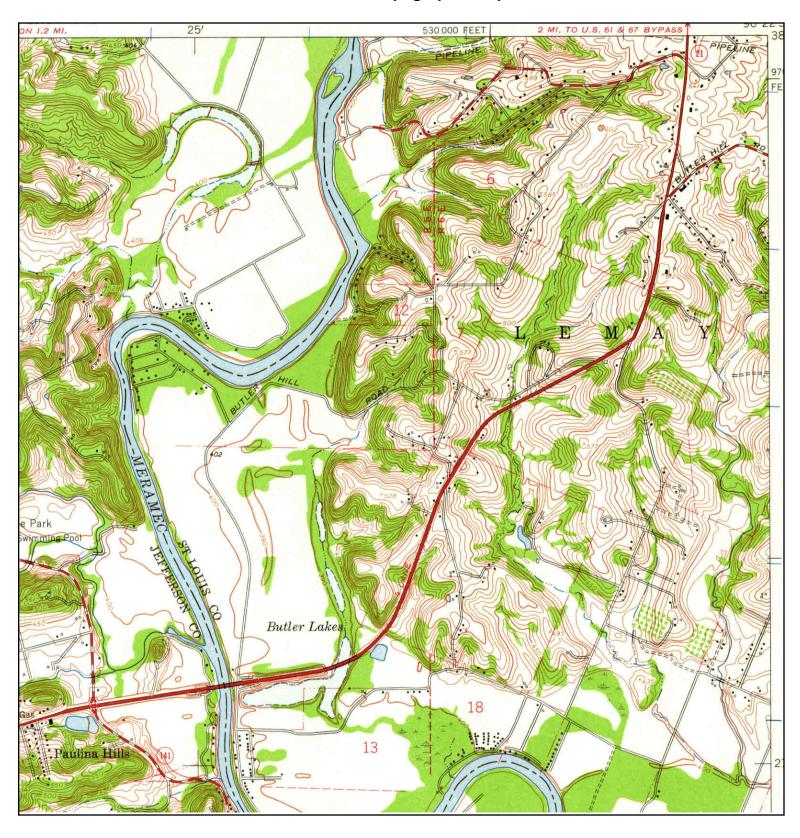
MAP YEAR: 1954

SERIES: 15 SCALE: 1:62500 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





TARGET QUAD

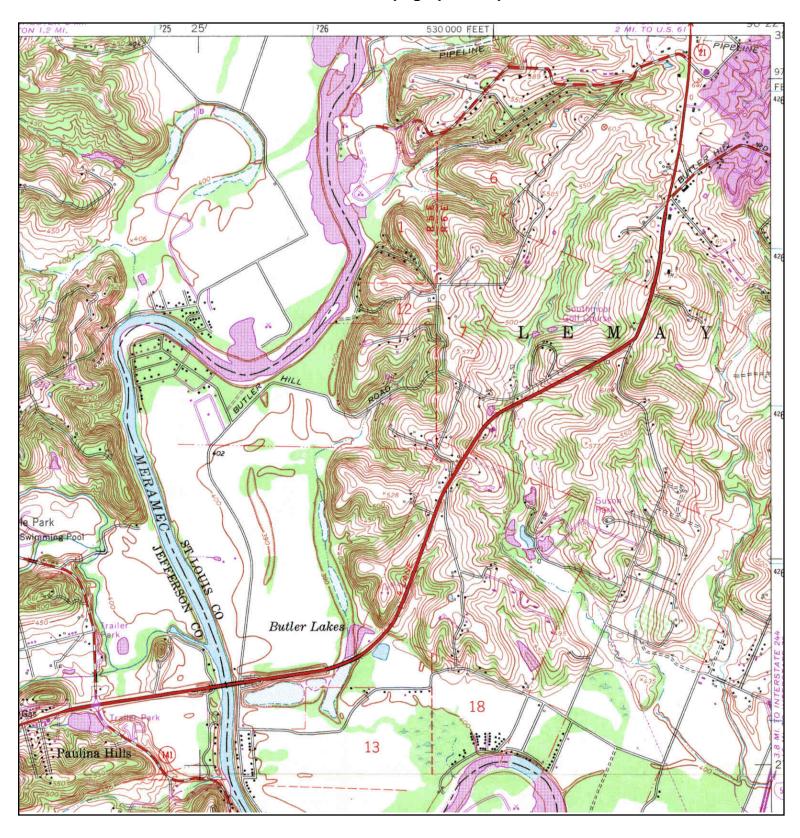
NAME: MAXVILLE MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





TARGET QUAD

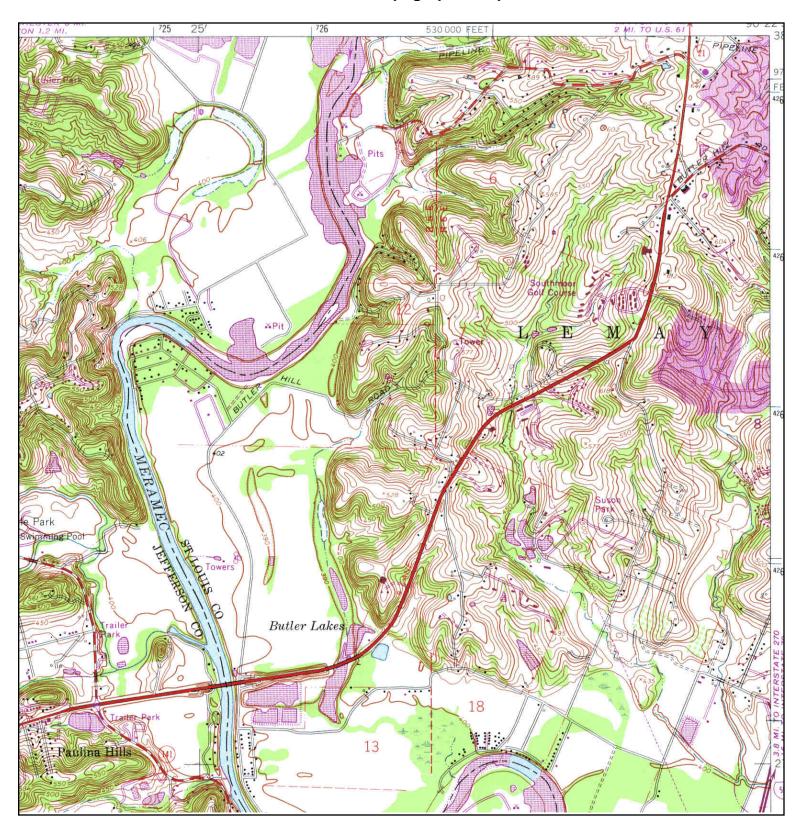
NAME: MAXVILLE MAP YEAR: 1968

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128 LAT/LONG: 38.4925 / -90.3861





TARGET QUAD

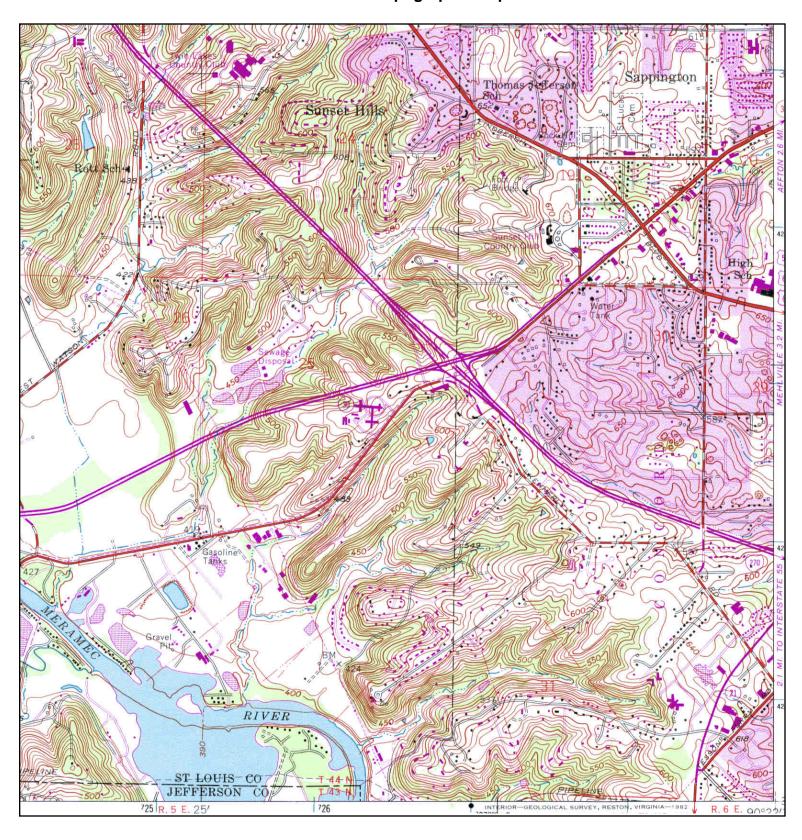
NAME: MAXVILLE MAP YEAR: 1974

PHOTOREVISED FROM: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





NAME: KIRKWOOD MAP YEAR: 1982

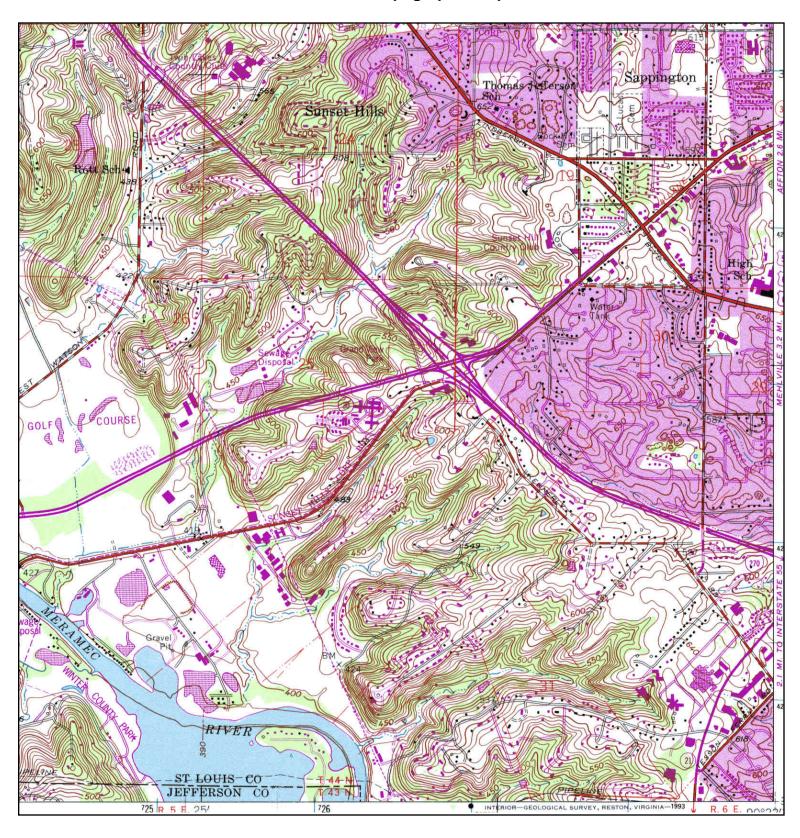
PHOTOREVISED FROM: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





ADJOINING QUAD

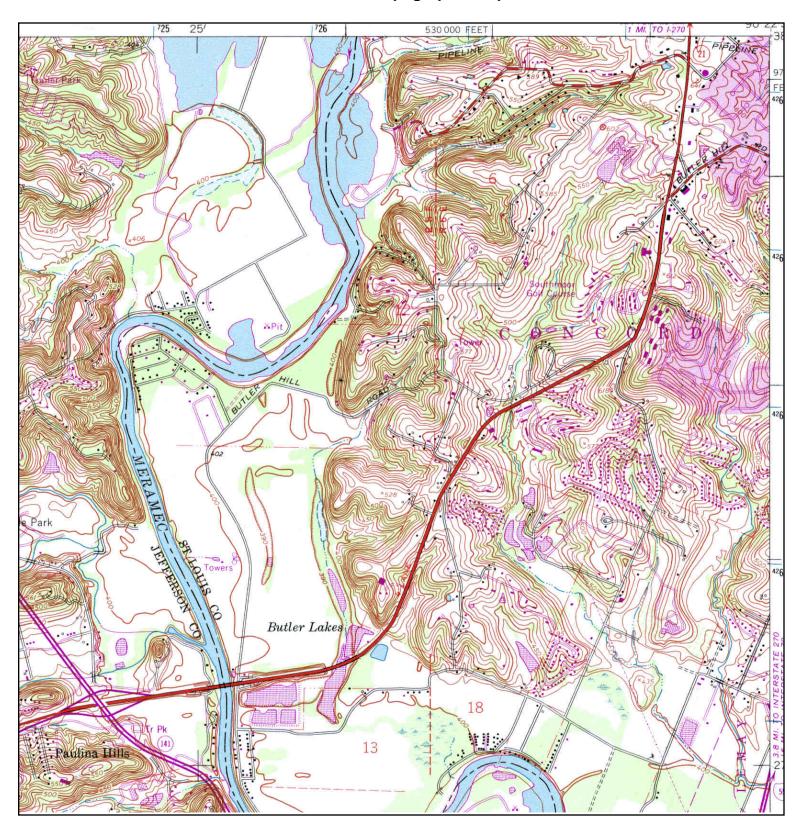
NAME: KIRKWOOD MAP YEAR: 1993 REVISED FROM :1954 SERIES: 7.5

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

LAT/LONG:

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128 38.4925 / -90.3861





TARGET QUAD

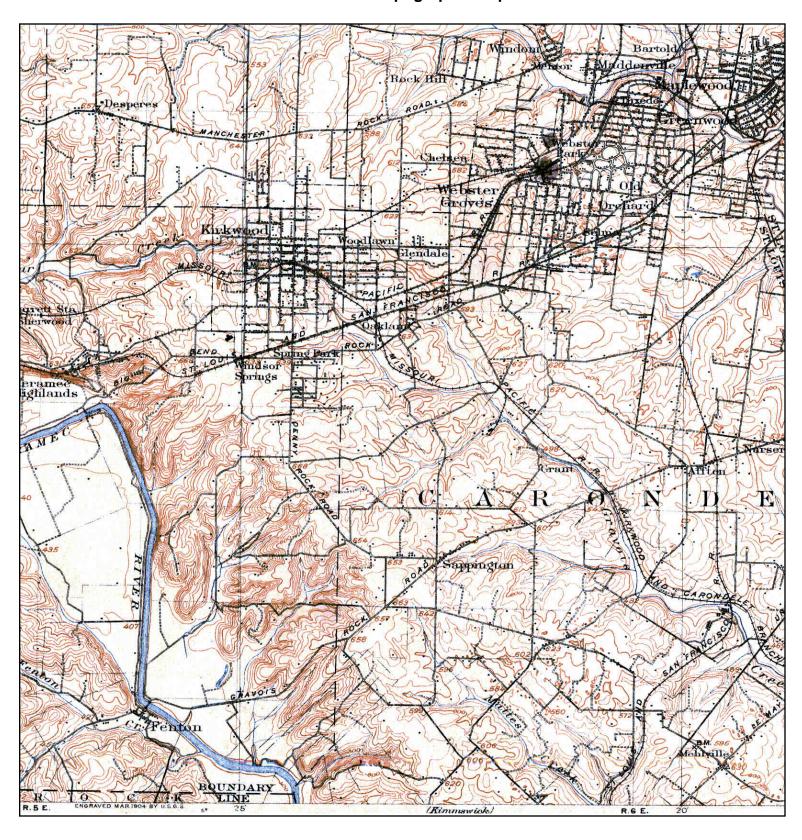
NAME: MAXVILLE MAP YEAR: 1982

PHOTOREVISED FROM: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128 LAT/LONG: 38.4925 / -90.3861





NAME: SAINT LOUIS MAP YEAR: 1912

CORRECTED FROM :1904

SERIES: 15

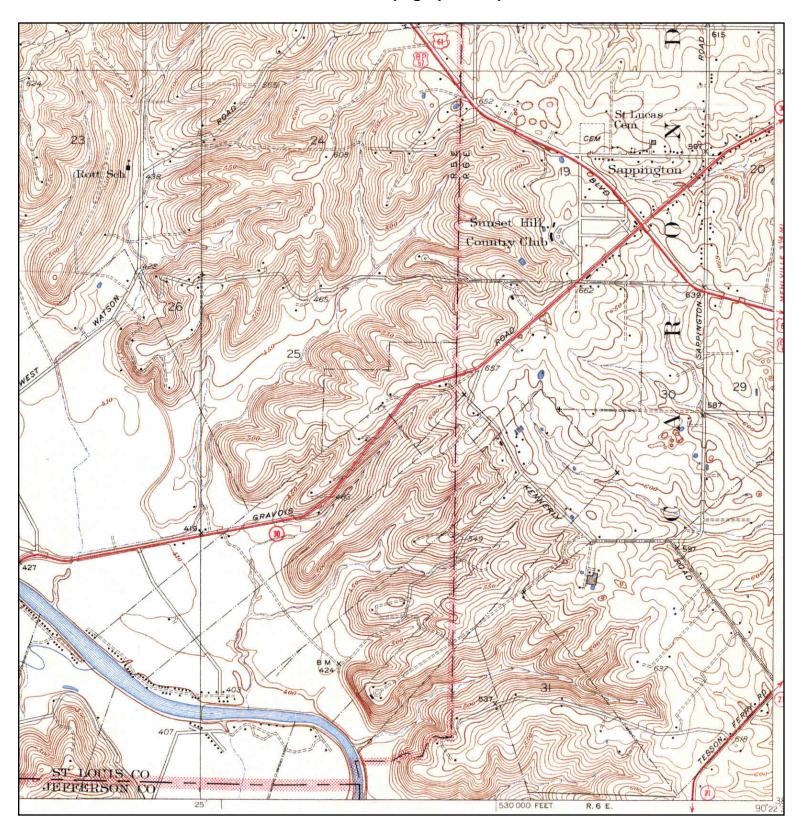
SCALE: 1:62500

SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





ADJOINING QUAD

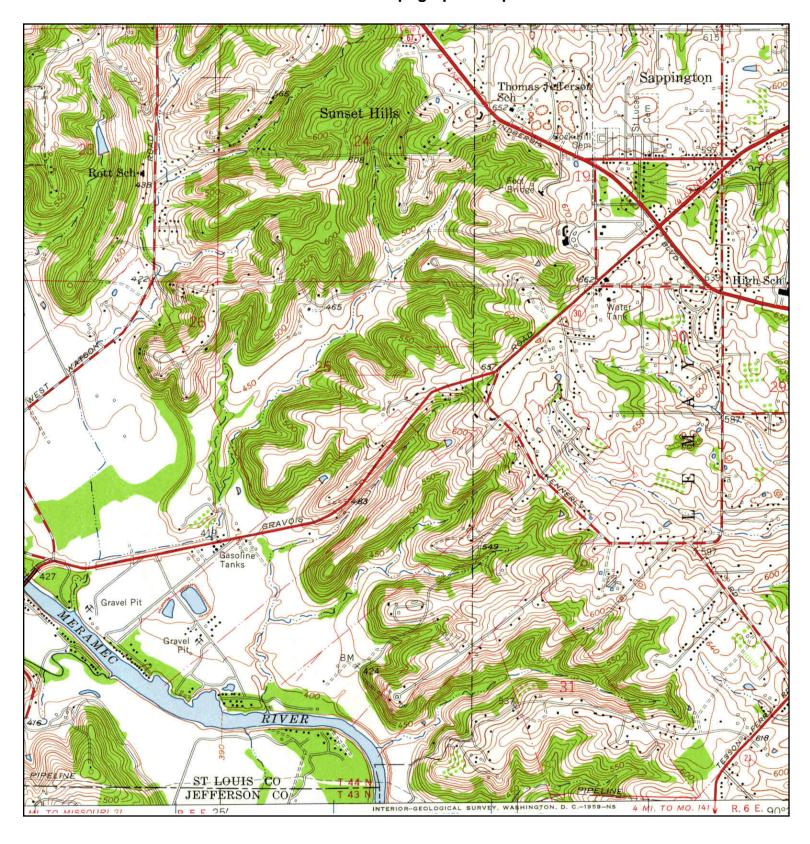
NAME: KIRKWOOD MAP YEAR: 1940

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

LAT/LONG:

ADDRESS: 13045 Tesson Ferry Road

> Saint Louis, MO 63128 38.4925 / -90.3861



ADJOINING QUAD

NAME: KIRKWOOD

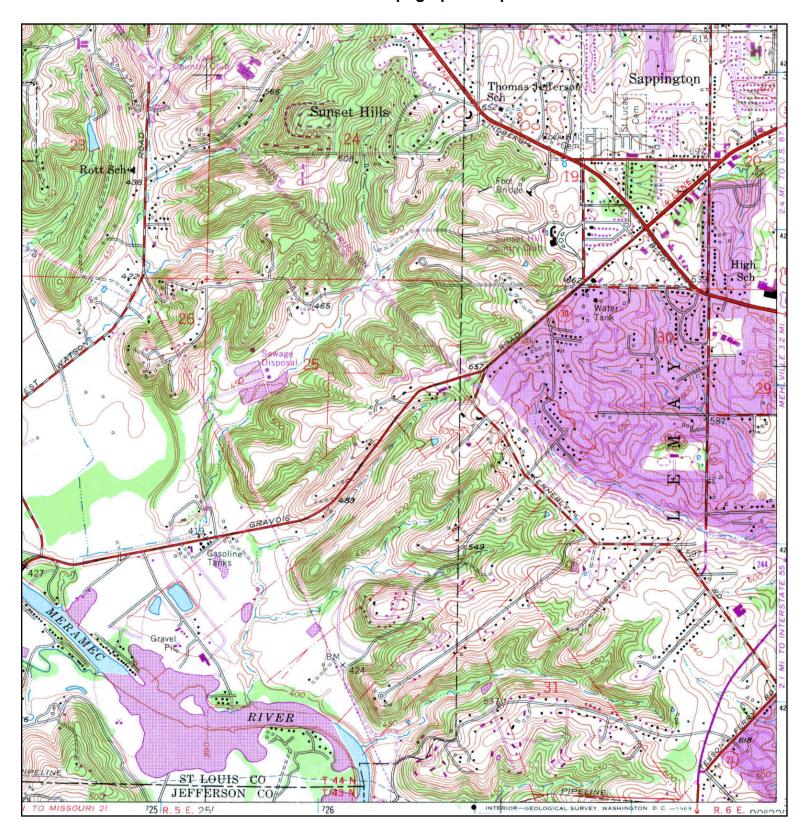
MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861





NAME: KIRKWOOD

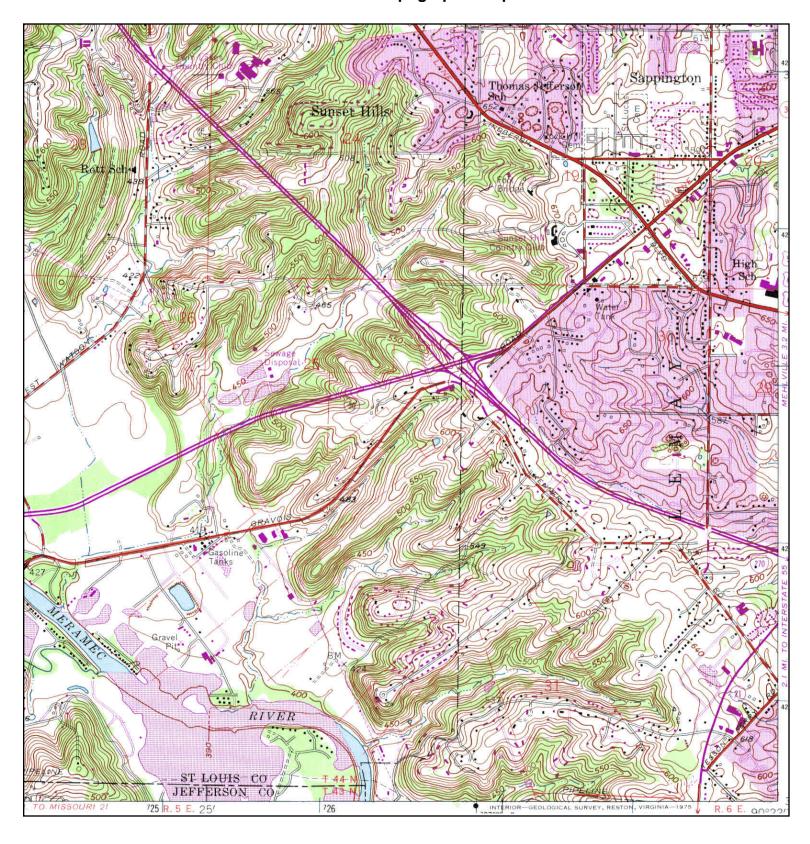
MAP YEAR: 1968

PHOTOREVISED FROM: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128 LAT/LONG: 38.4925 / -90.3861





NAME: KIRKWOOD MAP YEAR: 1974

PHOTOREVISED FROM :1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Metlife - NGA

ADDRESS: 13045 Tesson Ferry Road

Saint Louis, MO 63128

LAT/LONG: 38.4925 / -90.3861

Metlife - NGA

13045 Tesson Ferry Road Saint Louis, MO 63128

Inquiry Number: 4085433.9

September 26, 2014

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography September 26, 2014

Target Property:

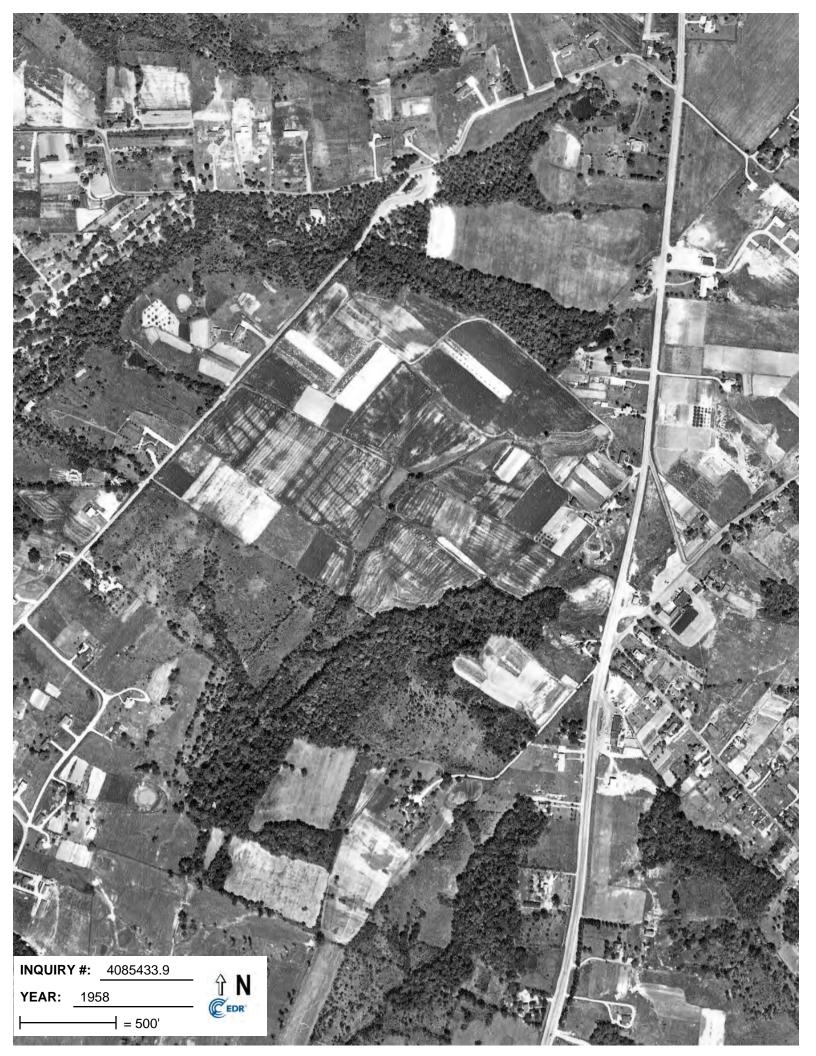
13045 Tesson Ferry Road Saint Louis, MO 63128

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1937	USGS
1941	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1941	USGS
1953	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1953	USGS
1958	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1958	USDA
1968	Aerial Photograph. Scale: 1"=500'	Flight Date: February 23, 1968	EDR
1971	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1971	USDA
1974	Aerial Photograph. Scale: 1"=750'	Flight Date: July 31, 1974	EDR
1985	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1985	USGS
1988	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1988	USGS
1992	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1992	USGS
1996	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 27, 1996	USGS/DOQQ
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP









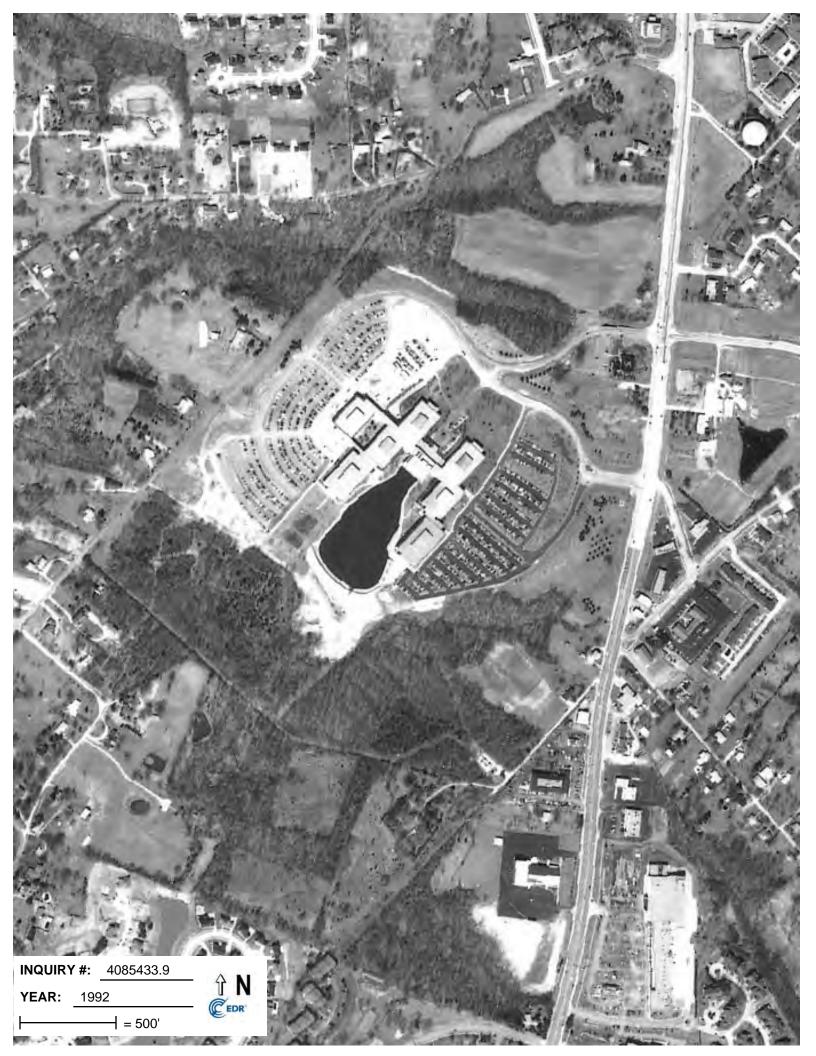








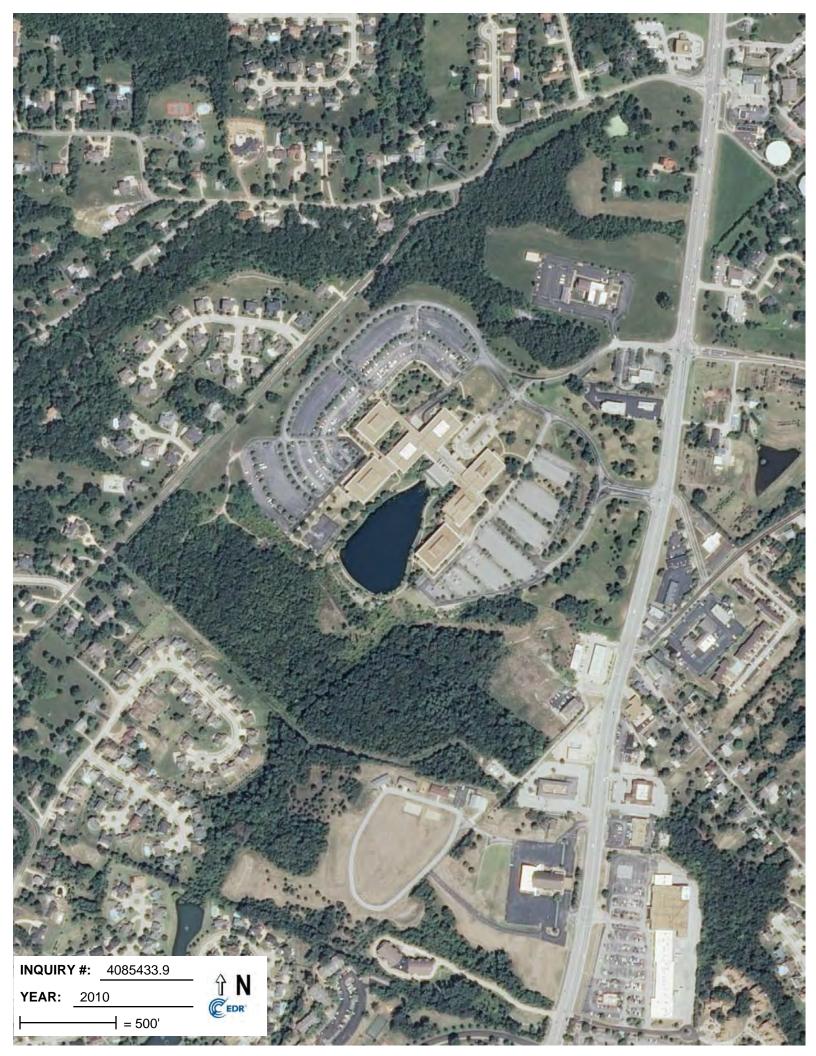














Metlife - NGA

13045 Tesson Ferry Road Saint Louis, MO 63128

Inquiry Number: 4085433.5 September 26, 2014

The EDR-City Directory Abstract



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Executive Summary

Findings

City Directory Images

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING. WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1930 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
2013	Cole Information Services	-	Χ	X	-
	Cole Information Services	Χ	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	Χ	X	X	-
2006	Haines Company, Inc.	Χ	X	X	-
2001	HAINES & COMPANY INC.	Χ	X	X	-
	Haines & Company, Inc.	Χ	X	X	-
1999	Cole Information Services	-	X	X	-
1992	Southwestern Bell	-	X	X	-
	Southwestern Bell Telephone Co.	-	X	X	-
1986	Southwestern Bell Telephone	Χ	X	X	-
	Southwestern Bell Telephone Co.	Χ	X	X	-
1980	R. L. Polk & Co.	-	-	-	-
1979	R. L. Polk & Co.	Χ	X	X	-
1975	R. L. Polk Co.	-	-	-	-
1973	R. L. Polk & Co.	-	X	X	-
1970	R. L. Polk & Co.	-	-	-	-
1965	R. L. Polk & Co.	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	R. L. Polk & Co.	-	-	-	-
1958	R. L. Polk & Co.	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1953	Southwestern Bell Telephone Co.	-	-	-	-
1949	R. L. Polk & Co.	-	-	-	-
1948	POLK-GOULD DIRECTORY CO.	-	-	-	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
1944	POLK-GOULD DIRECTORY CO.	-	-	-	-
1939	R. L. Polk & Co.	-	-	-	-
1936	Polk-Gould Directory Co	-	-	-	-
1935	Polk-Gould Directory Co	-	-	-	-
1930	R. L. Polk & Co.	_	_	_	_

TARGET PROPERTY INFORMATION

ADDRESS

13045 Tesson Ferry Road Saint Louis, MO 63128

FINDINGS DETAIL

Target Property research detail.

TESSON FERRY RD

13045 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	CIGNA	Cole Information Services
	EUREST DINING	Cole Information Services
	LOCKSMITH MOBILE	Cole Information Services
	METLIFE LIFE INSURANCE CO	Cole Information Services
2008	COVA CORP	Cole Information Services
	GENAMERICA FINANCIAL CORP	Cole Information Services
	GENERAL AMERICAN	Cole Information Services
	GREAT WEST LF ANNUITY INSR	Cole Information Services
	MEDLIFE	Cole Information Services
	METROPOLITAN LIFE INSURANCE CO	Cole Information Services
2006	CO NTL SV GREATWEST	Haines Company, Inc.
	GENLAMERLFE INS	Haines Company, Inc.
	HEALTHCARE WEBSTR U METRO	Haines Company, Inc.
	SITES SOUTH CO	Haines Company, Inc.
2001	GENL AME	HAINES & COMPANY INC.
	GENL AMERICAN LIFE	HAINES & COMPANY INC.
	GENLAMERLIFENATL	HAINES & COMPANY INC.
	INS B CLAIM	HAINES & COMPANY INC.
	INS PROVIDR	HAINES & COMPANY INC.
	SITES SOUTH CO	HAINES & COMPANY INC.
	WEBSTRU METRO	HAINES & COMPANY INC.
	GENL AMERICAN	Haines & Company, Inc.
	GENL AMERICAN LIFE	Haines & Company, Inc.
	GENLAMERLIFENATL	Haines & Company, Inc.
	INS B CLAIM	Haines & Company, Inc.
	INS PROVIDR	Haines & Company, Inc.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	SITES SOUTH CO	Haines & Company, Inc.
	WEBSTRU METRO	Haines & Company, Inc.
1986	Building Manager	Southwestern Bell Telephone
	GENERAL AMERICAN LIFE	Southwestern Bell Telephone
	Medicare Part B Claims info	Southwestern Bell Telephone
	National Service Center	Southwestern Bell Telephone
1979	GENERAL AMERICAN LIFE INS CO	R. L. Polk & Co.

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BRITTINGER RD

5419 BRITTINGER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	SCHUETZRoy 314 B	HAINES & COMPANY INC.
	BRITTINGERRD 63128 CONT	HAINES & COMPANY INC.
	SW OFF TESSON FERRY	HAINES & COMPANY INC.
	SCHUETZRoy 314 B	Haines & Company, Inc.
1992	SCHUETZ Roy	Southwestern Bell
	SCHUETZ Roy	Southwestern Bell Telephone Co.
1986	SCHUETZ Roy	Southwestern Bell Telephone Co.
	SCHUETZ Roy	Southwestern Bell Telephone
1979	SCHUETZ ROY O	R. L. Polk & Co.
1973	SCHUETZ ROY	R. L. Polk & Co.

BUTLER HILL RD

5010 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	BAUER ANTONE	R. L. Polk & Co.

5019 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	XXXX	HAINES & COMPANY INC.
	No Return	Haines & Company, Inc.
1973	LENZ CONRAD	R. L. Polk & Co.

5024 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	BECKER CARL WATTY	HAINES & COMPANY INC.
	GRANAPAULAATTY	HAINES & COMPANY INC.
	BECKER CARL WATTY	Haines & Company, Inc.
	GRANAPAULAATTY	Haines & Company, Inc.
1992	BAHN Mark R atty	Southwestern Bell
	BAHN Mark R atty	Southwestern Bell Telephone Co.
1986	Bahn Stephen F Realty	Southwestern Bell Telephone

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1979	KNITTIG WM B	R. L. Polk & Co.
1973	KNITTIG WM M	R. L. Polk & Co.

5030 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	SEALINGSPECLSTINC	HAINES & COMPANY INC.
	SEALINGSPECLSTINC	Haines & Company, Inc.
1979	BUTLER HILL FOOD SHOP GRO	R. L. Polk & Co.
1973	BUTLER HILL FOOD SHOP GRO	R. L. Polk & Co.

5034 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	XXXX	HAINES & COMPANY INC.
	No Return	Haines & Company, Inc.

5036 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	No Return	Haines & Company, Inc.
	xxxx	HAINES & COMPANY INC.
1986	Nightlife Saloon	Southwestern Bell Telephone

5040 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1979	KNITTIG BROS BOWL	R. L. Polk & Co.
1973	KNITTIG BROS BOWL	R. L. Polk & Co.

5050 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	PRECISION IMPORT	HAINES & COMPANY INC.
	AUTO SERVICE	HAINES & COMPANY INC.
	PRECISION IMPORT	Haines & Company, Inc.
	AUTO SERVICE	Haines & Company, Inc.
1986	Master Muffler	Southwestern Bell Telephone

5062 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	COMLRLESTSVS	Haines & Company, Inc.
	BAHN STEPHEN F	Haines & Company, Inc.
	BAHN STEPHEN F	HAINES & COMPANY INC.
	COMLRLESTSVS	HAINES & COMPANY INC.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1986	WAGNER Henran J	Southwestern Bell Telephone Co.
	WAGNER Henran J	Southwestern Bell Telephone
1979	WAGNER HERMAN J	R. L. Polk & Co.
1973	WAGNER HERMAN J	R. L. Polk & Co.

5066 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	MUELLERGlen	Haines & Company, Inc.
1986	Marina Pools	Southwestern Bell Telephone
	HARRIS Mae L	Southwestern Bell Telephone
	HARRIS Mae L	Southwestern Bell Telephone Co.
1979	MARINA POOLS LTD	R. L. Polk & Co.
	CALICO-CUPBOARD GIFT SHOP	R. L. Polk & Co.
1973	PORTA HERMAN J	R. L. Polk & Co.

5086 BUTLER HILL RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
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2001 MUELLERGIEN HAINES & COMPANY INC.

BUTLER OAK DR

13101 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	WEATHERFORDPa I	HAINES & COMPANY INC.
	WEATHERFORDPa I	Haines & Company, Inc.

13103 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company, Inc.
2001	WEATHERFORDP	Haines & Company, Inc.
	POPOVICHRichard	Haines & Company, Inc.
	FUSHIMICarlos A	Haines & Company, Inc.
	FUSHIMIC	Haines & Company, Inc.
	FUSHIMIC	HAINES & COMPANY INC.
	13108	HAINES & COMPANY INC.
	WEATHERFORDP	HAINES & COMPANY INC.
	RPOPOVICHRichard	HAINES & COMPANY INC.
	FUSHIMICarlos A	HAINES & COMPANY INC.
1992	PAUL Anna C	Southwestern Bell Telephone Co.
	PAUL Anna C	Southwestern Bell

13108 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	VILLAGE AT BUTLER HILL APARTMENTS	Cole Information Services
2008	RICHARD POPVICH	Cole Information Services
	BUTLER HILLS APARTMENT	Cole Information Services
1999	BUTLER HILL APARTMENTS	Cole Information Services

13109 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BONNEYThomas	Haines Company, Inc.
	COOK Bill	Haines Company, Inc.
	COOK Wi	Haines Company, Inc.
	HEIMAN Marc	Haines Company, Inc.
2001	VILLAFANEJ	Haines & Company, Inc.
	BALESKristi A	Haines & Company, Inc.
	HEIMAN Marc	Haines & Company, Inc.
	JAMESJ	Haines & Company, Inc.
	BALESKristi A	HAINES & COMPANY INC.
	HEIMAN Marc	HAINES & COMPANY INC.
	JAMESJ	HAINES & COMPANY INC.
	VILLAFANEJ	HAINES & COMPANY INC.
1992	WORTHAM I	Southwestern Bell Telephone Co.
	WORTHAM I	Southwestern Bell

13115 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PEARSON Brian	Haines Company, Inc.
	CHOTROWDanlelle	Haines Company, Inc.
	BOYER Kevin L	Haines Company, Inc.
2001	MCCLINTONFrank	Haines & Company, Inc.
	MCCLINTONFrank	HAINES & COMPANY INC.
1992	STRAKE Robert J	Southwestern Bell Telephone Co.
	MYUNG NA Kang	Southwestern Bell Telephone Co.
	BRAND Robt John	Southwestern Bell Telephone Co.
	MILLIKAN Terri	Southwestern Bell Telephone Co.
	STRAKE labadie	Southwestern Bell
	STRAKE Robert J	Southwestern Bell
	MYUNG NA Kang	Southwestern Bell
	MILLIKAN Terri	Southwestern Bell

<u>Year</u>	<u>Uses</u>	<u>Source</u>
-------------	-------------	---------------

1992 BRAND Robt John Southwestern Bell

13123 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	Source
2006	JONES Nicole	Haines Company, Inc.
2001	PRUETTJulie	Haines & Company, Inc.
	PRUETTRyan	Haines & Company, Inc.
	PRUETTJulie	HAINES & COMPANY INC.
	PRUETTRyan	HAINES & COMPANY INC.
1992	WILLIAMS Clifton	Southwestern Bell Telephone Co.
	HELMS Karen R	Southwestern Bell Telephone Co.
	BENDER K	Southwestern Bell Telephone Co.
	HELMS Karen R	Southwestern Bell
	WILLIAMS Clifton	Southwestern Bell
	BENDER K	Southwestern Bell

13173 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	Source
2006	No Current Listing	Haines Company, Inc.
2001	TURNEY Brian	Haines & Company, Inc.
	VINYARDMary E	Haines & Company, Inc.
	TURNEY Brian	HAINES & COMPANY INC.
	VINYARDMary E	HAINES & COMPANY INC.

13179 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ALBAYATI Muhannad	Haines Company, Inc.
	Donald	Haines Company, Inc.
	SCHNEIDERArthur	Haines Company, Inc.
	POLING Kennetth	Haines Company, Inc.
2001	MYERSAS	HAINES & COMPANY INC.
	MYERSAS	Haines & Company, Inc.
1992	LOTT Pat	Southwestern Bell
	LEGASPI Dan	Southwestern Bell
	EHELEBE i EHERT Larry	Southwestern Bell
	LEGASPI Dan	Southwestern Bell Telephone Co.
	EHELEBE i EHERT Larry	Southwestern Bell Telephone Co.
	LOTT Pat	Southwestern Bell Telephone Co.

13187 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	WADE Tim	Haines Company, Inc.
	MILLER Samuel	Haines Company, Inc.
	DAWNSweeney	Haines Company, Inc.
2001	STANEKChrislopher	HAINES & COMPANY INC.
	LONG Tina	HAINES & COMPANY INC.
	STANEKChrislopher	Haines & Company, Inc.
	LONG Tina	Haines & Company, Inc.
1992	HARRING Roger D	Southwestern Bell
	HOYT John C	Southwestern Bell
	HARRING Dave	Southwestern Bell
	JUST Nicholas J	Southwestern Bell
	JUST Nicholas J	Southwestern Bell Telephone Co.
	HOYT John C	Southwestern Bell Telephone Co.
	HARRING Dave	Southwestern Bell Telephone Co.
	HARRING Roger D	Southwestern Bell Telephone Co.

13193 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	Source
2006	SCHEFFLER Brandy	Haines Company, Inc.
	WALLS POSCHEL Derrick	Haines Company, Inc.
	MIDWSTRETAINING	Haines Company, Inc.
	GIBSONJ	Haines Company, Inc.
2001	ZERWIG Sally	HAINES & COMPANY INC.
	TRIGGCJ	HAINES & COMPANY INC.
	ZERWIG Sally	Haines & Company, Inc.
	TRIGGCJ	Haines & Company, Inc.
1992	GRAMLEY N	Southwestern Bell
	GRAMLEY N	Southwestern Bell Telephone Co.

13199 BUTLER OAK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LODGE Douglas	Haines Company, Inc.
	LODGE Chdstine	Haines Company, Inc.
	BLUEMELDaniel	Haines Company, Inc.
2001	EVERSH	HAINES & COMPANY INC.
	HUDDLESTON Debbie	HAINES & COMPANY INC.
	HUGGANSL	HAINES & COMPANY INC.
	SERVAISM	HAINES & COMPANY INC.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	SERVAISM	Haines & Company, Inc.
	HUGGANSL	Haines & Company, Inc.
	HUDDLESTON Debbie	Haines & Company, Inc.
	EVERSH	Haines & Company, Inc.
1992	JAMIESON Patrick	Southwestern Bell
	PATRICK Judy	Southwestern Bell
	THOMPSON Lafayette Sr	Southwestern Bell
	VANDEGRIFT Davis	Southwestern Bell
	THOMPSON Lafayette Sr	Southwestern Bell Telephone Co.
	PATRICK Judy	Southwestern Bell Telephone Co.
	JAMIESON Patrick	Southwestern Bell Telephone Co.
	VANDEGRIFT Davis	Southwestern Bell Telephone Co.

EAST DR

13131 EAST DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1979	KNITTIG ALLEN N	R. L. Polk & Co.
	FISCKO CHARLES J	R. L. Polk & Co.
1973	FISCKO CHARLES J	R. L. Polk & Co.

13134 EAST DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1979	ZANZIE DAVID	R. L. Polk & Co.
1973	LIVELY MELVIN	R. L. Polk & Co.

EAST LN

13131 EAST LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	VESSELLS Clara	Haines Company, Inc.
	CRAWFORD Bryan	Haines Company, Inc.
2001	CRAWPORDDVRSFD	HAINES & COMPANY INC.
	A OCRAWFORD Biyan	HAINES & COMPANY INC.
	13392	HAINES & COMPANY INC.
	CRAWFORD Biyan	Haines & Company, Inc.
	CDS	Haines & Company, Inc.
	VESSELLSClara	Haines & Company, Inc.
	CRAWPORDDVRSFD	Haines & Company, Inc.
1986	STEINKAMP Richard V	Southwestern Bell Telephone

<u>Year</u> <u>Uses</u> <u>Source</u>

1986 STEINKAMP Richard V Southwestern Bell Telephone Co.

13134 EAST LN

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 ZANZIE David Haines Company, Inc.

2001 ZANZIEDebbre HAINES & COMPANY INC.

OZANZIEDave HAINES & COMPANY INC. ZANZIE Debbre Haines & Company, Inc.

ZANZIEDave Haines & Company, Inc.

1986 ZANZIE David Southwestern Bell Telephone

ZANZIE David Southwestern Bell Telephone Co.

GRIFFIN DR

5024 GRIFFIN DR

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 CENTERPOINTE HSP Haines Company, Inc.

OTPTNTSV STH Haines Company, Inc.

5030 GRIFFIN DR

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 SEALINGSPECLST Haines Company, Inc.

5034 GRIFFIN DR

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 GEEKIE ROBERT MD Haines Company, Inc.

MD CIZEK KATHLEEN

MD EBELJAMESMD

Haines Company, Inc.

Mk ASSENGARYMD

Haines Company, Inc.

SAITZROBERTMD

Haines Company, Inc.

WILLEY CHARLES

Haines Company, Inc.

CALCATERRA CURT

Haines Company, Inc.

CALCATERRA CURT

5050 GRIFFIN DR

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 PRECISION IMPORT Haines Company, Inc.

AUTO SERVICE Haines Company, Inc.

5062 GRIFFIN DR

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 BAHN STEPHEN F Haines Company, Inc.

<u>Year</u> <u>Uses</u> <u>Source</u>

2006 COML RL EST SVS Haines Company, Inc.

GRIFFIN RD

5024 GRIFFIN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>

2013 BAHN STEPHEN F COMMERCIAL REAL Cole Information Services

ESTAT

5034 GRIFFIN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	MAASSEN GARY MD	Cole Information Services
	CALCATERRA CURT MD	Cole Information Services
	WILLEY CHARLES MD	Cole Information Services
	EBEL JAMES MD	Cole Information Services
	CIZEK KATHLEEN MD	Cole Information Services
	GEEKIE ROBERT MD	Cole Information Services
	ESSE HEALTH	Cole Information Services
2008	ESSE HEALTH	Cole Information Services

5050 GRIFFIN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	PRECISION IMPORT AUTO SERVICE	Cole Information Services
2008	PRECISION IMPORT AUTO SERVICE	Cole Information Services

5062 GRIFFIN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	ALL STATE SOUTH COUNTY	Cole Information Services
2008	STEPHEN F BAHN COMMERCIAL REAL ESTAT	Cole Information Services

OLD TESSON FERRY RD

13065 OLD TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	SOUTH COUNTY MEDICAL BUILDING	Cole Information Services
	ADVANCED CLINICAL RESEARCH	Cole Information Services
	PSYCH CARE CONSULTANTS	Cole Information Services
2006	CONSULTANTS	Haines Company, Inc.
	PSYCHCARE	Haines Company, Inc.
	CONSULTANTS PSYCHCARE	Haines Company, Inc.

13070 OLD TESSON FERRY RD

<u>Year</u> <u>Uses</u> <u>Source</u>

1986 B Tan Southwestern Bell Telephone

OLD TESSON RD

13065 OLD TESSON RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	PSYCH CARE	HAINES & COMPANY INC.
	DATTAKAPALMD	HAINES & COMPANY INC.
	CONSULTANTS	HAINES & COMPANY INC.

TESSON FERRY RD

13027 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	xxxx	HAINES & COMPANY INC.
	No Return	Haines & Company, Inc.
1979	COLONIAL MANOR KENNELS	R. L. Polk & Co.
	NEELY WM	R. L. Polk & Co.
1973	NEELY WM	R. L. Polk & Co.
	COLONIAL MANOR KENNELS	R. L. Polk & Co.

13050 TESSON FERRY RD

2006 KEHRT NURSERY Haines Company, Inc.	
SIGNORINO G Haines Company, Inc.	
2001 KEHRTLester J HAINES & COMPANY INC	
SIGNORINOQ HAINES & COMPANY INC	
SIGNORINOQ Haines & Company, Inc.	
KEHRTLester J Haines & Company, Inc.	
1992 KEHRT Lester J Southwestern Bell	
KEHRT Lester J Southwestern Bell Telephon	e Co.
1986 KEHRT Lester J Southwestern Bell Telephon	e Co.
KEHRT Lester J Southwestern Bell Telephon	е
1979 KEHRT L J NURSERY R. L. Polk & Co.	
KEHRT LESTER J R. L. Polk & Co.	
1973 KEHRT L J NURSERY R. L. Polk & Co.	
KEHRT LESTER J R. L. Polk & Co.	

13061 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	XXXX	HAINES & COMPANY INC.
	No Return	Haines & Company, Inc.
1973	MEYER RONALD	R. L. Polk & Co.

13065 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	xxxx	HAINES & COMPANY INC.
	No Return	Haines & Company, Inc.
1986	Fieser Larry	Southwestern Bell Telephone
	South Branch Claims Ofc	Southwestern Bell Telephone

13070 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	KELLY CLARK WICKS STATE FARM INSUR	Cole Information Services
2008	STATE FARM INSURANCE	Cole Information Services
	KELLY CLARK WICKS	Cole Information Services
2006	STATE FARM INS	Haines Company, Inc.
	AGENT	Haines Company, Inc.
2001	YALCINEnver	Haines & Company, Inc.
	SYALCINEnver	HAINES & COMPANY INC.
1999	B TAN SPA & MASSAGE	Cole Information Services
1979	YALCIN ENVER PHYS	R. L. Polk & Co.

13074 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	Source
2013	ZOUNDS HEARING AID STORES	Cole Information Services
2008	SEATTLE SUTTON LLC	Cole Information Services
2006	SEATTLE SUTTON	Haines Company, Inc.
2001	NARUP DANIELA DDS	Haines & Company, Inc.
	NARUP DANIELA DDS	HAINES & COMPANY INC.
1999	NARUP DANIEL A DDS	Cole Information Services
1986	Narup Daniel A DOS	Southwestern Bell Telephone
	NARUP Daniel A DDS	Southwestern Bell Telephone
	NARUP Daniel A DDS	Southwestern Bell Telephone Co.
1979	CLEARY MICHL E DENTIST	R. L. Polk & Co.

13076 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	THE CUTTING EDGE	Cole Information Services
2006	CUTTING EDGE THE	Haines Company, Inc.
2001	CUTTING EDGETHE	Haines & Company, Inc.
	CUTTING EDGETHE	HAINES & COMPANY INC.
1986	Cutting Edge The	Southwestern Bell Telephone

13078 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	TANDY LEATHER	Cole Information Services
2006	DIAL CLEANERS	Haines Company, Inc.
2001	DIAL CLEANERS	Haines & Company, Inc.
	DIAL CLEANERS	HAINES & COMPANY INC.
1986	Prewitt Carpet Service Inc	Southwestern Bell Telephone
1979	SKINNER & SCHROEDER INC REAL EST & APPRAISAL	R. L. Polk & Co.
	HOFFMANN REALTY REAL EST	R. L. Polk & Co.

13080 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	BOYER CHIROPRACTIC CENTER	Cole Information Services
2006	ALLCARE	Haines Company, Inc.
	CHIROPRACTIC	Haines Company, Inc.
	BOYER STAN L DC	Haines Company, Inc.
	GROBEDANADC	Haines Company, Inc.
	WELLNESS ONE	Haines Company, Inc.
	CHIRO OF STH CO	Haines Company, Inc.
2001	BACKANECKPAIN	HAINES & COMPANY INC.
	BOYERSTANLDC	HAINES & COMPANY INC.
	BACKANECKPAIN	Haines & Company, Inc.
	BOYERSTANLDC	Haines & Company, Inc.
1999	BACK & NECK PAIN CENTER	Cole Information Services

13082 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	YALCIN ENVER	Cole Information Services
2008	YALCIN ENVER	Cole Information Services
2006	YALCIN ENVER MD	Haines Company, Inc.
2001	YALCINENVERMD	Haines & Company, Inc.
	YALCINENVERMD	HAINES & COMPANY INC.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1986	Yakin Enver MD	Southwestern Bell Telephone
1979	TESSON REXALL DRUGS	R. L. Polk & Co.

13084 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	HAND THERAPY NETWORK	Cole Information Services
2008	HAND THERAPY NETWORK	Cole Information Services
2006	NETWORK SOUTH	Haines Company, Inc.
	HAND THRPY	Haines Company, Inc.
2001	HAND THERAPY	Haines & Company, Inc.
	NETWORK	Haines & Company, Inc.
	HAND TH	HAINES & COMPANY INC.
	NETWORK	HAINES & COMPANY INC.
1999	HAND THERAPY NETWORK SOUTH COUNTY	Cole Information Services

13086 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	ELITE LOCKSMITH	Cole Information Services
	AMERICAN FAMILY INSURANCE	Cole Information Services
2008	BARRY MENZEL AGENCY	Cole Information Services
	MENZEL SALES CO	Cole Information Services
2006	MARRY MENZEL	Haines Company, Inc.
	AGENCY MENZELSALES	Haines Company, Inc.
	COMPANY	Haines Company, Inc.
2001	A&EEELECTRONCS	Haines & Company, Inc.
	A 19 EELECTRONCS	HAINES & COMPANY INC.
1986	Boyer Chiropractic Centre	Southwestern Bell Telephone
	Butler Hill Chiropractic Centre	Southwestern Bell Telephone

13088 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	Source
2013	EDWARD JONES FINANCIAL ADVISOR MI	Cole Information Services
2008	EDWARD JONES KEN OBRECHT	Cole Information Services
2006	INVESTMENTS	Haines Company, Inc.
	EDWARD JONES	Haines Company, Inc.
2001	A Z USED COMPUTERS	Haines & Company, Inc.
	A TO Z USEDCMPTRS	Haines & Company, Inc.
	A 2 USED COMPUTERS	HAINES & COMPANY INC.

<u>Source</u>

Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
2001	ATOZUSEDCMPTRS	HAINES & COMPANY INC.		
1986	BOYER Stan L DC	Southwestern Bell Telephone Co.		
	Boyer Stan L DC	Southwestern Bell Telephone		
	BOYER Stan L DC	Southwestern Bell Telephone		
	Tesson Ferry Chiropractic Center	Southwestern Bell Telephone		
13090 TE	ESSON FERRY RD			
<u>Year</u>	<u>Uses</u>	<u>Source</u>		
2013	ROYS AUTO CARE	Cole Information Services		
2008	ROYS AUTO CARE	Cole Information Services		
2006	ROYS AUTO CARE	Haines Company, Inc.		
	ROYS SERVICE	Haines Company, Inc.		
	STATION	Haines Company, Inc.		
2001	STATION	Haines & Company, Inc.		
	ROYS SERVICE	Haines & Company, Inc.		
	SHELLSVSTA	Haines & Company, Inc.		
	SHELLSVSTA	HAINES & COMPANY INC.		
	STATION	HAINES & COMPANY INC.		
	ROYS SERVICE	HAINES & COMPANY INC.		
1999	ROYS SERVICE STATION	Cole Information Services		
1986	Roys Shell	Southwestern Bell Telephone		
1979	BUTLER HILL SHELL GAS STA	R. L. Polk & Co.		
1973	BUTLER HILL SHELL GAS STA	R. L. Polk & Co.		
13096 TE	ESSON FERRY RD			
<u>Year</u>	<u>Uses</u>	Source		
2013	MUELLER GLEN E	Cole Information Services		
2008	GLEN E MUELLER INC	Cole Information Services		
2006	MUELLER GLEN E	Haines Company, Inc.		
2001	MUELLER GLEN E DMD	HAINES & COMPANY INC.		
	MUELLER GLEN E DMD	Haines & Company, Inc.		
13099 TE	13099 TESSON FERRY RD			
<u>Year</u>	<u>Uses</u>	<u>Source</u>		
2013	QUIKTRIP	Cole Information Services		
2006	QUIKTRIP NO	Haines Company, Inc.		

13100 TESSON FERRY RD

<u>Uses</u>

LOVES PHOTOGRAPHY

<u>Year</u>

2013

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PHOTOGRAPHY	Haines Company, Inc.
	LOVES	Haines Company, Inc.
2001	LOVES PHOTOGRAPHY	Haines & Company, Inc.
	LOVE Don	Haines & Company, Inc.
	LOVE Don	HAINES & COMPANY INC.
	LOVES PHOTOGRAPHY	HAINES & COMPANY INC.
1999	LOVES PHOTOGRAPHY	Cole Information Services
1986	Goedekers TV & Appliance	Southwestern Bell Telephone
1979	FARMERS INSURANCE GROUP	R. L. Polk & Co.
	LECHNER STEVEN B REAL ESTATE CO	R. L. Polk & Co.

13101 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	xxxx	HAINES & COMPANY INC.
	No Return	Haines & Company, Inc.
1992	SCHUETZ Julius W	Southwestern Bell
	SCHUETZ Julius W	Southwestern Bell Telephone Co.
1986	SCHUETZ Julius W	Southwestern Bell Telephone Co.
	SCHUETZ Julius W	Southwestern Bell Telephone
1979	SCHULTZ JULIUS W	R. L. Polk & Co.

13116 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	Source
2006	MATTESE AUTO	Haines Company, Inc.
	REPAIR INC RENT A WRECK	Haines Company, Inc.
	SOUTH COUNTY	Haines Company, Inc.
	U HAUL CO	Haines Company, Inc.
	REPAIR INC MATTESE AUTO	Haines Company, Inc.
2001	DEALERS	HAINES & COMPANY INC.
	KEMPFHoward	HAINES & COMPANY INC.
	MATTESEAUTO	HAINES & COMPANY INC.
	REPAIR	HAINES & COMPANY INC.
	MATTESEAUTO	HAINES & COMPANY INC.
	REPAIR	HAINES & COMPANY INC.
	RENT A WRECK	HAINES & COMPANY INC.
	UHAULCOINDP	HAINES & COMPANY INC.
	KEMPFHoward	Haines & Company, Inc.
	MATTESEAUTO	Haines & Company, Inc.
	REPAIR	Haines & Company, Inc.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	MATTESEAUTO	Haines & Company, Inc.
	REPAIR	Haines & Company, Inc.
	RENT A WRECK	Haines & Company, Inc.
	U HAULCOINDP	Haines & Company, Inc.
	DEALERS	Haines & Company, Inc.
1986	Mattese Auto Repair Inc	Southwestern Bell Telephone
	Mattese Auto Repair Inc	Southwestern Bell Telephone
1979	MATTESE AUTO REPAIR	R. L. Polk & Co.

13117 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	HERNADYEmest	HAINES & COMPANY INC.
	HERNADYEmest	Haines & Company, Inc.

13118 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	Source
2006	GIBSON Ev	Haines Company, Inc.
2001	KEMP Howard	Haines & Company, Inc.
	BOUFFARD Pamela	Haines & Company, Inc.
	KEMP Howard	HAINES & COMPANY INC.
	BOUFFARD Pamela	HAINES & COMPANY INC.
1992	KEMP Howard	Southwestern Bell Telephone Co.
	KEMP Howard	Southwestern Bell
1986	KEMPF Robt C J	Southwestern Bell Telephone
	KEMP Howard	Southwestern Bell Telephone
	KEMPF Robt C J	Southwestern Bell Telephone Co.
	KEMP Howard	Southwestern Bell Telephone Co.
1979	KEMPF ROBT C	R. L. Polk & Co.

13119 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	HERNADYErnes I	HAINES & COMPANY INC.
	HERNADYErnes I	Haines & Company, Inc.

13120 TESSON FERRY RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company, Inc.
2001	No Return	Haines & Company, Inc.
	XXXX	HAINES & COMPANY INC.
1979	KEMPE S BAR TAVERN	R. L. Polk & Co.

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
13045 Tesson Ferry Road	1992, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
13027 TESSON FERRY RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13050 TESSON FERRY RD	2013, 2008, 1999, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13061 TESSON FERRY RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13065 OLD TESSON FERRY RD	2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13065 OLD TESSON FERRY RD	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13065 OLD TESSON RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13065 TESSON FERRY RD	2013, 2008, 2006, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13070 OLD TESSON FERRY RD	2013, 2008, 2006, 2001, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13070 TESSON FERRY RD	2013, 2008, 1999, 1992, 1986, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13070 TESSON FERRY RD	2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13074 TESSON FERRY RD	2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13074 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13076 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13076 TESSON FERRY RD	2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13078 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13078 TESSON FERRY RD	2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930

Address Researched	Address Not Identified in Research Source
13080 TESSON FERRY RD	2013, 2008, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13080 TESSON FERRY RD	2013, 2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13082 TESSON FERRY RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13082 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13084 TESSON FERRY RD	2013, 2008, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13084 TESSON FERRY RD	2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13086 TESSON FERRY RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13086 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13088 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13088 TESSON FERRY RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13090 TESSON FERRY RD	2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13090 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13096 TESSON FERRY RD	2013, 2008, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13096 TESSON FERRY RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13099 TESSON FERRY RD	2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13099 TESSON FERRY RD	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13100 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1944, 1934, 1936, 1935, 1930
13100 TESSON FERRY RD	2008, 2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13101 BUTLER OAK DR	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13101 TESSON FERRY RD	2013, 2008, 2006, 1999, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13103 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13108 BUTLER OAK DR	2006, 2001, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13109 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13115 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930

Address Researched	Address Not Identified in Research Source
13116 TESSON FERRY RD	2013, 2008, 1999, 1992, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13117 TESSON FERRY RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13118 TESSON FERRY RD	2013, 2008, 1999, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13119 TESSON FERRY RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13120 TESSON FERRY RD	2013, 2008, 1999, 1992, 1986, 1980, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13123 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13131 EAST DR	2013, 2008, 2006, 2001, 1999, 1992, 1986, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13131 EAST LN	2013, 2008, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13134 EAST DR	2013, 2008, 2006, 2001, 1999, 1992, 1986, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13134 EAST LN	2013, 2008, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13173 BUTLER OAK DR	2013, 2008, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13179 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13187 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13193 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
13199 BUTLER OAK DR	2013, 2008, 1999, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5010 BUTLER HILL RD	2013, 2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5019 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5024 BUTLER HILL RD	2013, 2008, 2006, 1999, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5024 GRIFFIN DR	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5024 GRIFFIN RD	2008, 2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5030 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5030 GRIFFIN DR	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5034 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5034 GRIFFIN DR	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930

Address Researched	Address Not Identified in Research Source
5034 GRIFFIN RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5036 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5040 BUTLER HILL RD	2013, 2008, 2006, 2001, 1999, 1992, 1986, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5050 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5050 GRIFFIN DR	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5050 GRIFFIN RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5062 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1944, 1934, 1936, 1935, 1930
5062 GRIFFIN DR	2013, 2008, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5062 GRIFFIN RD	2006, 2001, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5066 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1944, 1934, 1934, 1935, 1930
5086 BUTLER HILL RD	2013, 2008, 2006, 1999, 1992, 1986, 1980, 1979, 1975, 1973, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930
5419 BRITTINGER RD	2013, 2008, 2006, 1999, 1980, 1975, 1970, 1965, 1961, 1960, 1958, 1955, 1953, 1949, 1948, 1944, 1939, 1936, 1935, 1930

Metlife - NGA

13045 Tesson Ferry Road Saint Louis, MO 63128

Inquiry Number: 4085433.3

September 26, 2014

Certified Sanborn® Map Report



Certified Sanborn® Map Report

9/26/14

Site Name: Client Name: Metlife - NGA CH2M Hill. Inc.

13045 Tesson Ferry Road 6600 Peachtree Dunwoody Rd

Saint Louis, MO 63128 Atlanta, GA 30328

EDR Inquiry # 4085433.3 Contact: Jesse A. Brown



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Metlife - NGA

Address: 13045 Tesson Ferry Road **City, State, Zip:** Saint Louis, MO 63128

Cross Street:

P.O. # NA

Project: 650193.01.06.02.02 **Certification #** 40A3-4748-AB94

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results Certification # 40A3-4748-AB94

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

University Publications of America

▼ EDR Private Collection

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Photo 1: Main entrance facing southwest.



Photo 2: Module D facing north.



Photo 3: Loading dock facing southwest.



Photo 4: Patio by cafeteria facing east.



Photo 5: Parking area facing east.



Photo 6: Parking area facing southwest.



Photo 7: Parking area facing northwest



Photo 8: Parking area facing southeast.



Photo 9: Lake facing southwest.



Photo 10: Lake facing northeast.



Photo 11: Outfall from lake facing southwest.



Photo 12: basketball courts facing south.



Photo 13: Snow removal equipment laydown area facing west.



Photo 14: Equipment storage container facing southeast.

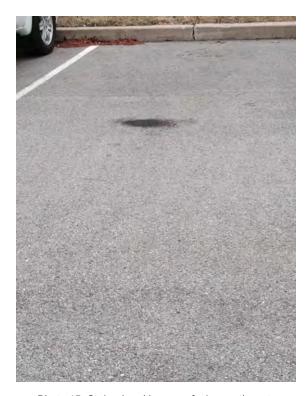


Photo 15: Stained parking area facing northwest.



Photo 16: scrap metal dump area facing north.



Photo 17: Close-up of empty drum.



Photo 18: gravel and mulch piles facing south.



Photo 19: Dumped siding.



Photo 20: Southwestern boundary facing southeast.



Photo 21: Dumped plastic piping.



Photo 22: Power substation facing northwest.



Photo 23: Dumped plastic pots.



Photo 24: Dumped asphalt pieces.



Photo 25: Remnants of an automobile in the wooded area at the south end of the Property.



Photo 26: Northeastern boundary facing north.



Photo 27: Northeastern boundary facing north.



Photo 28: Non-PCB transformer in lower level of Building.



Photo 29: Elevator hydraulic system leak.



Photo 30: Battery and transformer recycling collection area.



Photo 31: Spray paint and storage.



Photo 32: Spray duster, cleaners, and degreaser storage.



Photo 33: Spray lubricants storage.



Photo 34: Used light bulb recycling area.



Photo 35: Battery back-up rack.



Photo 36: Battery backup rack.



Photo 37: Oil storage area.



Photo 38: Grease trap in kitchen.



Photo 39: Grease trap in kitchen.



Photo 40: Used grease disposal tank.



Photo 41: Forklift battery charging station.



Photo 42: Ink cartridge recycling staging area.



Photo 43: Elevator hydraulic leak in lower level of Module A.



Photo 44: Hydraulic oil in lower level of Module A.



Photo 45: Cooling water treatment system.



Photo 46: Heat transfer fluid tank.

Michael Brose

Environmental Scientist

Mr. Brose is a project manager and an environmental scientist in CH2M HILL's Atlanta, Georgia office. He has 18 years of experience with remediation projects and performing Phase I and Phase II environmental site assessments (ESAs), environmental baseline surveys (EBSs), and environmental condition of property (ECP) reports.

Representative Projects

Lead Environmental Scientist; ECP; USACE Mobile on Behalf of the Marine Corps Support Facility (MCSF) Blount Island; September 2012 to December 2012. Completed 188 ECP checklist reports for all the facilities located at MCSF Blount Island.

Project Manager and Lead Environmental Scientist; Environmental Baseline Survey; Air National Guard; Harrisburg, Pennsylvania; October 2011 to May 2012. Prepared an EBS for the acquisition by ANG of three land parcels adjacent to Harrisburg International Airport.

Project Manager and Lead Environmental Scientist; ECP and Record of Environmental Consideration (REC); USACE Mobile on behalf of the Defense Logistics Agency (DLA); Multiple Buildings at Various Navy Installations; June 2010 to September 2011. The sites include 14 installations within the continental U.S. and 3 overseas (Okinawa, Japan; Rota, Spain; and Naples, Italy). Managed a team of environmental professionals. Managed a multi-disciplinary team of technologists that addressed key resource areas for preparing RECs. Responsible for technical guidance and senior review of deliverables, as well assuring that the project stayed within schedule and budget.

Lead Environmental Scientist; ECP; USACE Mobile on behalf of the Department of the Navy (DON); August 2011 to October 2011. Prepared two ECPs at the MCSF Blount Island using the DON's new ECP checklist. One parcel was being transferred to the Jacksonville Port Authority (JPA) and one parcel was being acquired from JPA. This was a quick turnaround project that was completed under budget and within the shortened schedule.

Lead Environmental Scientist and Task Manager; EBS; USACE Mobile on Behalf of Eglin Air Force Base; Fort Walton, Florida; October 2010 to March 2011.

Managed a team that prepared two EBSs for proposed

Education

- B.S., Chemistry, Wayne State University, Detroit, Michigan, 1992
- Post-Bachelors Certificate, Hazardous Material Management, Wayne State University, Detroit, Michigan, 1993

Distinguishing Qualifications

- 12 years of experience as a project manager.
- 18 years of experience with remediation projects.
- Qualified under 40 CFR §312.10(b) to perform Phase I ESAs as an Environmental Professional.
- Performed over 70 Phase I ESA reports for federal and commercial clients

wastewater treatment pipelines. The scope included oversight of the visual site inspection, technical guidance and review of the deliverables, and signatory of the final deliverable as the qualified environmental professional under 40 CFR §312.10(b) to perform Phase I ESAs, as well assuring that project stayed within schedule and budget.

Project Manager and Lead Environmental Scientist; ECP; USACE Mobile on Behalf of the DLA; Portsmouth Naval Shipyard, Kittery Maine; March 2010. Managed a team that prepared an ECP on six buildings to be transferred to the DLA from the Navy. Work included oversight of the visual site inspection, technical guidance and review of the deliverables, and signatory of the final deliverable as a qualified environmental professional under 40 CFR §312.10(b) to perform Phase I ESAs, as well assuring that project stayed within schedule and budget.

Project Manager; ECP; USACE Mobile on Behalf of the DLA; Pearl Harbor, Hawaii; March 2010. Managed a team that prepared an ECP for seven buildings to be transferred to the DLA from the Navy. Responsibilities included oversight of the visual site inspection, technical guidance and review of the deliverables, and signatory of the final deliverable as a qualified environmental professional under 40 CFR §312.10(b) to perform Phase I ESAs, as well assuring that project stayed within schedule and budget.

Lead Environmental Scientist and Task Manager; EBS; Anniston Army Depot; Anniston, Alabama; June 2009. Supervised the preparation of an EBS for property to be purchased from a railroad adjacent to the Depot. This included oversight of the visual site inspection, technical guidance and review of the

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deliverables, and signatory of the final deliverable as a qualified environmental professional under 40 CFR §312.10(b) to perform Phase I ESAs, as well assuring that project stayed within schedule and budget. A Phase II effort followed, which included collecting soil samples along the property.

Project Manager; ECP; USACE Mobile on Behalf of the DLA; Various Locations; February 2009 to September 2009. Managed the preparation of four ECPs for the transfer of warehouses at naval installations (Marine Corps Logistics Base, Albany, Georgia; Norfolk Navy Shipyard, Portsmouth, Virginia; Naval Station Kitsap, Bremerton, Washington; and Marine Corps Logistics Base, Barstow, California) in which the DLA was taking management responsibility. Managed a team of qualified environmental professionals. Responsible for technical guidance and senior review of deliverables, as well assuring that project stayed within schedule and budget.

Lead Environmental Scientist and Task Manager; ECP; USACE Mobile; Homestead, Florida; January 2009 to July 2009. Managed the development of an ECP for the construction of a U.S. Army Special Operations Command South (SOCSOUTH) Headquarters facility. SOCSOUTH recently relocated its headquarters to a temporary facility on Homestead Air Reserve Base (HARB), Florida. Managed a team of qualified environmental professionals. Responsible for technical guidance and senior review of deliverables, as well assuring that project stayed within schedule and budget.

Lead Environmental Scientist and Task Manager; EBS; AFCEE; Various Locations; 2008 to 2009. Managed the preparation of four environmental baseline studies for U.S. Air Force Bases in South Carolina, Tennessee, and Mississippi (Shaw, Arnold, Charleston, and Keesler). Managed a team of qualified environmental professionals. Responsible for technical guidance and senior review of deliverables, as well assuring that project stayed within schedule and budget.

Lead Environmental Scientist; EBS; Arnold Air Force Base, Tennessee; 2008. Prepared an EBS for the Morris Ferry Boat Dock at Arnold Air Force Base. Was the signatory of the final deliverable as a qualified environmental professional under 40 CFR §312.10(b) to perform Phase I ESAs.

Lead Environmental Scientist and Task Manager; Phase I ESA, NEPA Documentation, and Environmental Studies Support; USACE Mobile **District on Behalf of U.S. Customs and Border Protection; June 2007 to December 2008.** Managed the preparation of 14 ESAs on property to be used for the expansion of Border Patrol stations along the southern U.S. border. Managed a team of qualified environmental professionals. Responsible for technical guidance and senior review of deliverables, as well assuring that project stayed within schedule and budget.

Lead Environmental Scientist; EBS; U.S. Air Force; Forward Operating Location, Manta, Ecuador; 2007. Conducted an EBS at the U.S. Air Force forward operating (FOL) location in Manta, Ecuador. The scope included the entire U.S. portion of the air base.

Lead Environmental Scientist; EBS; Forward Operating Location, Curacao, Netherland Antilles; 2007. Conducted an EBS at the U.S. Air Force FOL in Manta, Ecuador. The scope included the entire U.S. portion of the air base.

Lead Environmental Scientist; Phase I ESA; Confidential Client; 2007. Conducted a Phase I ESA for the sale of a chemical plant in Atlanta, Georgia.

Lead Environmental Scientist; Phase I ESA; MARTA; 2006 to 2007 Assessed five separate properties for proposed acquisition in accordance with all appropriate inquiries (AAI) guidelines in Atlanta, Georgia.

Lead Environmental Scientist; Phase I ESA; FPL Energy; 2005. Prepared a Phase I ESA for 36 square miles of property with over 100 property owners for a placement of wind turbines near Abilene, Texas.

David Stieb, P.E.

Civil Engineer

Mr. Stieb, an Engineer in CH2M HILL's Southeast Region, has 28 years experience with the firm and 2 years previous experience with other firms. Mr. Stieb specializes in water and wastewater conveyance systems, environmental evaluation of property for transfer, and site remediation. He has acted as Project Manager and Senior design Engineer for Hazardous Waste Site Remediation System Design, Utility System evaluations, and environmental Assessment of Property for transfer.

Representative Projects

Senior Engineer; ASTM Phase I Evaluations for the Transfer of Various Facilities from the Navy to the Defense Logistic Agency; Navy; Multiple Locations.

Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables for CONUS locations. Project included three OCONUS locations. Responsibilities for OCONUS locations included performing the Phase I assessments and report preparation. The OCUNUS locations included Naval Air Station, Naples Italy; Naval Air Station, Rota, Spain, Kadena AFB, Okinawa, Japan.

Lead Engineer; ASTM Phase I Evaluations for the Disposal of Building 561 and the Light Training Area; Former Ramey AFB; Aguidilla, Peurto Rico.

Responsibilities included establishing project team goals, objectives, and evaluation criteria.
Responsibilities also included performing the Phase I assessments and report preparation.

Lead Engineer; Environmental Assessment for Master Plan Study for the C-17 Beddown; U.S. Army Corps of Engineer, Alaska District; New Delhi, India.

Responsibilities included performing the environmental assessment, including interviews with local property owners and Government Officials in India and report preparation. Also directed one subcontractor to assit with interviews and records searches of India environmental databases.

Education

- B.S., Agricultural Engineering, 1990
- M.S., Agricultural Engineering, 1983

Distinguishing Qualifications

- 28 years of experience.
- Specializes in site remediation and environmental evaluation of property.
- Has extensive experience with Hazardous Waste Site Remediation System Design

Lead Engineer; Environmental Assessment for Master Plan Study; U.S. State Department; Haiti.

Responsibilities included establishing project team goals, objectives, and evaluation criteria.
Responsibilities also included performing the environmental assessment and report preparation.

Task Manager/Lead Engineer; Phase II, Phase III, and Phase IV Environmental Baseline Surveys (EBS) and Findings of Suitability to Transfer (FOST); 1,500-acre former Naval Complex, Charleston, SC. Previous property uses included residential, commercial, warehouse, heavy industrial, nuclear submarine maintenance, and ammunition storage. Mr. Stieb has directed a staff of eight personnel in performing ASTM Phase I environmental assessments as well as portions of deed transfer documents. Mr. Stieb's duties included providing assistance to Navy legal staff on transfer issues associated with the environmental condition of the property in addition to the assessments and FOST documents. CH2M HILL developed a style for reporting the findings that is assisting the Navy in transferring the property in parcels while meeting the ASTM, DoD Base Realignment and Closure, and regulatory requirements.

Project Manager/Assistant Project Manager;
Performing ASTM Phase I to Lease Kelly AFB Property
being Privatized; U.S. Air Force; Kelly AFB. Mr. Stieb
has directed a staff of upto 6 personnel in performing
ASTM Phase I environmental assessments for leasing
approximately 2,000 acres of the former Kelly AFB.
Previous property uses included residential,
commercial, warehouse areas, and heavy industrial.
CH2M HILL developed a style for reporting the findings
that is assisting the Air Force in transferring the
property in parcels while meeting the ASTM, DoD Base
Realignment and Closure, and regulatory
requirements.

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Task Manager; ASTM Phase I Evaluations of the Airfield; U.S. Air Force; Arnold AFB. Work at Arnold included documenting environmental condition of the area around the closed airstrip at Arnold Air Force Base, Tullahoma, Tennesse. The airfield was being reopened and new construction of hangers was proposed for a joint use, civilian and military, facility. Mr. Stieb directed the staff performing the work and performed senior review.

Task Manager; ASTM Phase I Evaluations of Utilities; Fort Hood, TX Work at Fort Hood was to support utilities privatization study to evaluate selling utility infrastructure. Mr. Stieb directed the staff performing the work and performed senior review.

Assistant Project Manager/Senior Engineer; ASTM Phase II Effort to Support Transfer of Property from the U. S. Air Force to the City of San Antonio; San Antonio, TX. Responsibilities included identification of historic property use, directing field investigations to assess the environmental condition of identified facilities on a 4,000 acre complex, preparation of reports, negotiations with regulators, and support to Air Force legal staff on transfer issues associated with the environmental condition of the property.

Senior Engineer; ASTM Phase I Evaluations; Various Air National Guard Installations, Multiple Locations Across the U. S. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; U.S. Custom and Border Patrol; Multiple Locations along the Southern U.S. Border. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; Military Family Housing Privatization; U.S. Air Force's Southern Command Bases. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations of Former Army Maintenance Depot; Baton Rouge, LA.
Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the

Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations for the Military Family Housing Privatization; Fort Belvoir, VA. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; Hawian Air National Guard; Hickham Air Force Base, HI.
Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; AFCEE; HI. Installations where Phase I work was performed include: Wheeler Army Airfield, Bellows AFS, Kwajalein Atoll, Palehua Air Force Solar Observatory Unit, and Building 2116 at Hickham AFB. Responsibilities included establishing project team goals, objectives, evaluation criteria, and preparing the Finding of Suitability for Transfer documents. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; 611th Air Force Wing; AFCEE; AK. Installations where Phase I work was performed include: Barter Island LRRS, Campion AFS, Cold Bay LRRS, and Kotzebue LRRS. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; 63 U.S. Army Reserve Facilities; BRAC. The work was performed under contract with the U.S. Army Corps of Engineers, Louisville District. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.

Senior Engineer; ASTM Phase I Evaluations; Kansas Air National Guard; McConnell Air Force Base, KS. Responsibilities included establishing project team goals, objectives, and evaluation criteria. Also was the Quality Assurance/Quality Control Engineer (performed senior review) of project deliverables.